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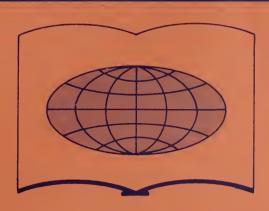


# Pesticides Documentation Bulletin

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Volume 5 February 28, 1969 Number 5



W.S. DEPARTMENT OF AGRICULTURE

# PESTICIDES DOCUMENTATION BULLETIN

A Bi-Weekly Publication of U.S. Department of Agriculture

# **OBJECTIVES AND SCOPE**

The Pesticides Documentation Bulletin is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

#### **FORMAT**

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

- 10 Entomology
- 20 Crop Protection
- 30 Livestock Protection
- 40 Commodity Protection
- 50 Environmental Contamination
- 55 Residues
- 60 Toxicology
- 65 Plant Physiology & Biochemistry
- 70 Chemistry
- 80 Engineering
- 90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested

Company furnishing the compound

Author or Investigator

Test Sponsor

Date

Location

Mode of Application

Rates of Application

Soil Types

Carriers

Crops or Weeds tested with phytotoxicity ratings

Associated documentation

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# **ACKNOWLEDGMENT**

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

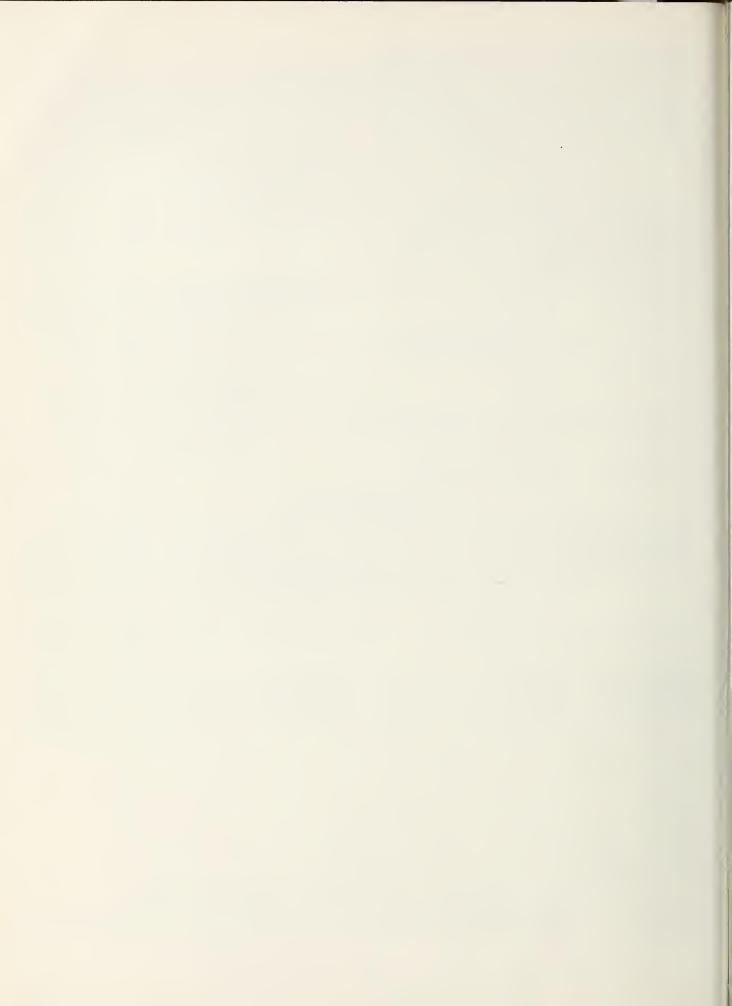
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<sup>\*</sup>This issue does not contain citations under this category.



# **ENTOMOLOGY**

2471-69

COMPARATIVE STUDIES OF THE MOL-LUSCICIDAL EFFECT OF CUPROUS CILLORIDE AND COPPER SULFATE IN IRAN.

K Y Chu

World Health Organ Bull 39(2):320-326

1968 449.9 W892B

Animal vectors, Chemical control (pests), Copper chloride, Copper sulfate, Dosage, Fish, Molluscacides, Ponds, Schistosoma, Snails.

INFLUENCE OF THE FORM OF TRAPS UPON THE ATTRACTIVENESS OF SEXUAL ODOUR OF GYPSY MOTH FEMALES. (SE)

M Maksimovic R Marovic Zastita Bilja 18(93/95):115-123

1967 464.8 Z1

Insect collecting equipment, Insect traps, Porthetria dispar, Sex attractants, Smell, Zoogeography. English summary.

#### SYSTEMATICS

2473-69

UNDESCRIBED SPECIES OF CRANE FLIES FROM THE HIMALAYA MOUNTAINS (DIPTERA: TIPULIDAE), XVII.

C P Alexander

N Y Entomol Soc J 77(1):61-65

Mar 1969 420 N48J

Insect geography, Insect taxonomy, Tipulidae.

PLANTHOPPERS OF THE FAMILY DERBIDAE (HOMOPTERA, AUCHENORRHYNCHA) IN THE FAUNA OF THE USSR.

G A Anufrivey

Entomol Rev 47(1,JAN-MAR):75-82 REF

Mar 1968 421 R322AE

Catalogs, Derbidac, Insect geography, Insect tax-

2475-69

IMPORTANT ADDITIONS TO MYRMECOFAU-NA (HYMENOPTERA, FORMICIDAE) OF THE USSR WITH SOME NEW DESCRIPTIONS. (RUS

K V Arnoldi

Zool Zhur 47(12):1800-1822

Dcc 1968 410 R92

Formicidae, Insect taxonomy, German abstract

A REVIEW OF THE GENUS GOSODESMUS CHAMBERLIN, WITH THE SYNONYMY OF EUCYBE CHAMBERLIN (DIPLOPODA: PLATYDESMIDA: ANDROGNATHIDAE).

J S Buckett M R Gardner

N Y Entomol Soc J 77(1):40-50 MAP

Mar 1969 420 N48J

Diplopoda, Insect geography, Insect names, Insect taxonomy, Polymorphism.

ZOOGEOGRAPHIC ANALYSIS OF MITES OF THE FAMILY RHINONYSSIDAE (GAMASOIDEA, PARASITIFORMES) OF THE USSR FAUNA. (RUS)

O.M. Butenko

Zool Zhur 48(2):207-211

Feb 1969 410 R92

Birds, Gamasid mites, Host relationships, Insect geography, Zoogeography. English abstract

NEOTROPICAL MIRIDAE, CIII: REVISION OF THE GENUS RESTHENIA SPINOLA (HEMIP-TERA). (POR )

J C M Carvalho A V Fontes Rev Brasil Biol 28(3):235-242

Sep 1968 442.8 R326

Insect geography, Insect taxonomy, Miridae, Neotropical Region. English summary

NEOTROPICAL MIRIDAE, CI: REVISION OF THE CYLAPUS SAY COMPLEX WITH DESCRIPTIONS OF GENERA AND NEW SPE-CIES. (POR)

J C M Carvalho A V Fontes

Rev Brasil Biol 28(3):273-282

Scp 1968 442.8 R326

Catalogs, Insect geography, Insect taxonomy, Miridae, Neotropical Region. English summary.

NEW MEXICAN AND CENTRAL AMERICAN SPECIES OF STRANGALIA AUDINET-SER-VILLE (COLEOPTERA: CERAMBYCIDAE).

1 A Chemsak

N Y Entomol Soc J 77(1):2-9

Mar 1969 420 N48J

Insect geography, Insect taxonomy, Strangalia.

THE DISTRIBUTION AND ABUNDANCE OF COLLEMBOLA IN THE TUNDRA ZONE.

Yu I Chernov

Entomol Rev 47(1,JAN-MAR):47-49 REF

Mar 1968 421 R322AE

Collembola, Insect ecology, Insect geography, Insect populations, Tundras.

2482-69

WATER MITES FROM INDIA.

D R Cook

Amer Entomol Inst Mem 9, 411P, REF

1967 420 AM34

Aquatic insects, Hydrachnellae, Insect taxonomy.

ANTS OF THE GENUS PROFORMICA RUZS. OF THE USSR AND CONTIGUOUS COUNTRIES (HYMENOPTERA, FORMICIDAE). (RUS

G M Dlussky

Zool Zhur 48(2):218-232 REF

Feb 1969 410 R92

Formicidae, Insect taxonomy. English abstract

DESCRIPTION OF A NEW SPECIES OF BRYOBIA FROM JAPAN. (ACARINA: (ACARINA: BRYOBIA FROM TETRANYCHIDAE).

S Ehara M Yamada

Annot Zool Jap 41(2):66-69

Jun 1968 410 AN79

Bryobia, Insect taxonomy.

2485-69

SPECIES THE GENUS NEW OF TYPHLODROMUS FROM SUDAN (ACARI: PHYTOSEIIDAE).

E. A. Elbadry

J Zool 153(4):463-474

Dec 1967 410.9 L84P

Africa, Economics, Insect ecology, Insect taxonomy, Typhlodromus.

2486-69

KEY FOR IDENTIFICATION SIGHT MOSQUITOES OF THE GREAT SALT LAKE BASIN.

R E Elbel

Mosquito News 28(2):167-171

Jun 1968 421 M85

Aedes, Anopheles, Culex, Insect identification, Insect taxonomy.

Two identification plates which allow easy sight recognition of 18 species of mosquitos in the Salt Lake area are presented.

COSSIDAE, METARBELIDAE, PSYCHIDAE, LIMACODIDAE, DREPANIDAE, URANIIDAE, LASIOCAMPIDAE, EUPTEROTIDAE, BOM-BYCIDAE, SATURNIIDAE AND SPHINGIDAE. D.S. Eletcher

Brit Mus (Nat Hist) Ruwenzoie Exped 1(8):45P RFF

Apr 1968 422.7 R94

Insect taxonomy, Lepidoptera, Includes 68 species, 17 of which are described as new.

TWO NEW SYMPATRIC SPECIES OF A NEW LEAF-HOPPER GENUS (HOMOPTERA, LEAF-HOPPER GENUS (HOMOPTERA, CICADELLOIDEA) ATTACKING COCOA IN

M S K Ghauri

Ann Mag Natur Hist 3(1 JAN-MAR):35-39

Mar 1969 410 AN77

Cicadellidae, Cocoa, Insect taxonomy.

Two externally similar but reproductively distinct lcalhoppers in a new genus of Cicadclloidea were found to be sympatric cocoa pests in Ghana.

A CONTRIBUTION TO THE FAUNA OF FLEAS IN EASTERN SIBERIA. (RUS

A 1 Goncharov G 1 Vasiliev G B Zonov V V Kirillov

Zool Zhur 48(1):149-150

Jan 1969 410 R92

Catalogs, Insect geography, Insect taxonomy, Siphonaptera. English abstract

FIG--WASPS (CHALCIDOIDEA) OF HONG KONG I. AGAONIDAE.

D S Hill

Leiden Rijksmus Natuur Hist Zool Verhandel (89):3-55 REF

31 May 1967 410.9 L59Z

Catalogs, Chalcidoidea, Host records, Insect geography, Insect taxonomy.

2491-69

STRUCTURE OF THE PLASTRON OF HEXA-CYLLOEPUS, WITH A DESCRIPTION OF A NEW SPECIES (COLEOPTERA, EL-MINTHIDAE).

H F Hinton

Ann Mag Natur Hist 3(1.JAN-MAR):125-130

Mar 1969 410 AN77

Colcoptera, Electron microscopy, Insect morphology, Insect taxonomy.

TWO GENERA OF THE FAMILY ENCYR-TIDAE (HYM., CHALCIDOIDEA), NEW FOR EUROPE. (GE )

A Holfer

Acta Ent Boliemoslov 65(5):379-385

20 Sep 1968 420 C33

Chalcidoidea, Encyrtidae, Insect identification, Insect taxonomy, Zoogeography. English and Czech summaries.

CONTRIBUTION TO THE KNOWLEDGE OF BRAZILIAN SPECIES OF THE GENUS EU-RYNEURA SCHINER, 1867 (DIPTERA, STRATIOMYIDAE). (POR)

Rev Brasil Biol 28(3):251-272 REF

Sep 1968 442.8 R326 Insect taxonomy, Stratiomyidae. English summary.

NEW SPECIES OF THE GENUS MALACOPHAGOMYIA FROM PARAIBA, BRAZIL (DIPTERA, SARCOPHAGIDAE).

R Kano H de S Lopes Rev Brasil Biol 28(3):303-306 MAP

Sep 1968 442.8 R326 Insect taxonomy, Sarcophagidae.

2495-69

DESCRIPTIONS OF TWO NEW SARCOPHAGA SPECIES FROM THE TRANSVAAL (DIPTERA: SARCOPHAGIDAE).

R Kano F Zumpt

Novos Taxa Entomol (63):3-8

Nov 1968 421 N853

Insect taxonomy, Sarcophaga.

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A LIST OF THE TYPE-SPECIMENS OF LIBEL-LULIDAE AND CORDULHDAE (ODONATA) IN THE BRITISH MUSEUM (NATURAL HISTO-RY).

D E Kimmins

Brit Mus (natur Hist) Entamal Bull Suppl 22(6):277-305 REF

1968 420 B773

Catalogs, Insect geography, Odonata.

2.197.69

LINOGNATIIUS DIGITALIS N. SP. (ANOPLU-RA: LINOGNATHIDAE) FROM THE SPRING-BUCK (ANTIDORCAS MARSUPIALIS (ZIM-MERMANN)).

K P N Kleynhans

Navos Taxa Entomal (60):1-6

Jun 1968 421 N853

Anoplura, Insect taxonomy, Linognathus digitalis, Wildlife.

2498-69

SOME NEW AND LITTLE KNOWN GROUND BEETLES (COLEOPTERA, CARABIDAE) OF THE USSR AND NEIGHBORING COUNTRIES.

O L Kryzhanovskiy

Entamal Rev 47(1,JAN-MAR):91-100 REF Mar 1968 421 R322AE

Mar 1908 421 K322AE

Carabidac, Insect geography, Insect taxonomy.

2499-69

ASSASSIN FLIES OF THE TRIBE LAPHYSTINI (DIPTERA, ASILIDAE) OF THE USSR FAUNA. (RUS)

P A Lchr

Zoal Zhur 48(2):233-240

Fcb 1969 410 R92

Asilidae, Insect taxonomy. English abstract

2500-69

THE ACTUAL PLACING OF THE ZELURUS SPECIES HAHN OF THE GROUP FORMOSUS (HEMIPTERA, REDUVIDAE). (POR )

H Lent P Wygodzinsky

Rev Brasil Biol 28(3):317-326 REF

Sep 1968 442.8 R326

Insect geography, Insect taxonomy, Reduviidae.

2501-69

ON THE GENUS NASOCORIS RT. (HET., MIRIDAE).

R Linnavuori

Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 34(4):201-204

1968 421 SU7

Insect taxonomy, Miridac, Nasocoris, Zoogcography.

2502-69

DESCRIPTION OF SCAPHIDIUM COMES SP. N. AND NOTES ON SOME OTHER PALAEAR-TIC SPECIES OF THE GENUS SCAPHIDIUM (COLEOPTERA, SCAPHIDIDAE).

Lobl

Acta Ent Bahemoslov 65(5):386-390 REF

20 Sep 1968 420 C33

Insect identification, Insect names, Insect taxonomy, Scaphidiidae, Zoogeography. Czech summary.

2503.60

STUDIES ON COPULATION OF SOME SAR-COPHAGID FLIES (DIPTERA). TAXONOMIC IMPORTANCE OF SOME FEATURES OF MALE AND FEMALE GENITALIA.

H de S Lopes R Kano

Rev Brasil Biol 28(3):295-301

Sep 1968 442.8 R326

Insect mating, Insect taxonomy, Reproductive organs, Sarcophagidae.

2504-69

NOTES ON THE TYPES OF SOME NEOTROPI-CAL SARCOPHAGID FLIES DESCRIBED BY ENDERLEIN (DIPTERA, SARCOPHAGIDAE). H De S Lopes

Rev Brasil Bial 28(3):337-349 REF

Sep 1968 442.8 R326

Insect geography, Insect taxonomy, Neotropical Region, Sarcophagidae.

2505-69

AUSTRALIAN BLATTIDAE (BLATTODEA). VI. REVISION OF THE GENUS COSMOZOSTERIA STAL.

M J Mackerras

Australian J Zool 15(3):593-618 MAP

May 1967 410 AU73

Blattidac, Catalogs, Insect geography, Insect taxonomy.

2506-69

CONSIDERATIONS ON THE DISTRIBUTION OF SOME GENERA OF COLEOPTERA, CARABIDAE AND CHRYSOMELIDAE IN THE APPENINE MOUNTAINS OF ITALY. (IT)

M Magistretti S Ruffo

Accad Naz Ital Entomol Atti 8:137-179 MAP 1960 420 AC2

Carabidac, Chrysomelidae, Colcoptera, Insect coology, Zoogeography. Many species are discussed.

2507-69

A NEW SPECIES OF THE GENUS EREMIPPUS UV. (ORTHOPTERA, ACRIDIDAE) FROM SOUTEAST KAZAKHSTAN.

M P Mal'kovskiy

Entomal Rev 47(1,JAN-MAR):73-74

Mar 1968 421 R322AE

Acrididae, Insect geography, Insect taxonomy.

2508-69

MICROARTHROPODS FROM TWO QUEBEC WOODLAND HUMUS FORMS. III. THE SAR-COPTIFORMES (ACARINA).

V G Marshall

Entomol Soc Quebec Ann 13(2):65-88 REF
May 1968 420 EN822

Acarina, Humus, Insect identification, Insect taxonomy, Microarthropods, Oribatei, Sarcoptiformes. French summary, annotated list of 97 species

2509-69

NEW SPECIES OF MEALYBUGS (HOMOPTERA, COCCOIDEA, PSEUDOCOCCIDAE) FROM EAST KAZAKHSTAN.

G Ya Matesova

Entomol Rev 47(1,JAN-MAR):85-90

Mar 1968 421 R322AE

Insect geography, Insect taxonomy, Pseudococcidae.

2510-69

THE CEREAL LEAF BEETLE-A NEW INSECT IN ONTARIO.

R J McClanahan H R Boyce W R Code Eutomal Soc Ontario Prac 98:21-26 MAP REF 1967 420 ON8

Grain, Insect migration, Insect taxonomy, Oulema melanopus, Zoogcography.

2511-69

A NEW SPECIES OF THE GENUS APHODIUS ILL. (COLEOPTERA, SCARABAEIDAE) FROM ABKHASIA.

S 1 Mcdevcdcv

Entomol Rev 47(1,JAN-MAR):101-102

Mar 1968 421 R322AE

Insect geography, Insect taxonomy, Scarabaeidae.

2512-69

A NEW SPECIES OF THE GENUS PSEUDOBLAPS GUERIN (COLEOPTERA, TENEBRIONIDAE) FROM IRAN.

G S Medvedev

Entanual Rev 47(1,JAN-MAR):103-104

Mar 1968 421 R322AE

Insect geography, Insect taxonomy, Tenebrionidae.

2513-69

THE TYPE-SPECIMENS OF THE PALEARCTIC SPECIES OF SCOLYTUS GEOFFR. (COLEOPTERA, SCOLYTIDAE) IN THE INSTITUTE OF

ZOOLOGY COLLECTION, USSR ACADEMY OF SCIENCES (LENINGRAD).

J Michalski

Entamol Rev 47(1,JAN-MAR):107-116 REF

Mar 1968 421 R322AE

Catalogs. Insect geography, Insect taxonomy, Palearctic Region, Scolytus.

2514-69

A NEW SPECIES OF DICLIDOPHLEBIA (HOMOPTERA: PSYLLIDAE) FROM NIGERIA. E O Osisanya

Aun Mag Natur Hist 3(1.JAN-MAR):71-77

Mar 1969 410 AN77

Insect geography, Insect taxonomy, Psyllidae.

2515-69

A REVIEW OF THE AUSTRALIAN SPECIES OF THE GENUS LIGYRA NEWMAN (HYPERALONIA OLIM) (BOMBYLIIDAE: DIPTERA).

S.I. Paramonov

Australian J Zaal 15(1):123-144

Fcb 1967 410 AU73

Bombyliidae, Catalogs, Insect geography, Insect taxonomy.

2516-69

STUDIES ON AUSTRALIAN MUSCIDAE (DIPTERA). I. SOME SPECIES OF DICHAETOMYIA MALLOCH.

A C Pont

Australian J Zool 15(3):619-640

May 1967 410 AU73

Catalogs, Insect geography, Insect taxonomy, Muscidac.

2517-69

A NEW SPECIES OF COLPOCEPHALUM (HALLOPHAGA: MENOPONIDAE) FROM THE KEA. R D Price

Kans Entomol Soc J 40(1):9

Jan 1967 420 K13

Colpocephalum pilgrimi, Insect identification, Research, Taxonomy.

518.69

MISCOPHUS HELIOPHILUS SP. N. (HYM., SPHECIDAE). (FR.)

W Pulawski

Pol Pismo Entomol 38(2):285-287

1968 421 P76

Insect identification, Insect taxonomy, Sphecidae, Polish summary.

2519-69

NEW PYEMOTIDAE FINDS IN HAMBURG (ACARINA, PYEMOTIDAE). (GE

G Rack
Hamburg Zool Staatsinst Zoal Mus Entomol Mitt

3(58):1-17 REF

01 Jun 1967 421 H17 Insect taxonomy, Mites, Pediculaster arcanus, Pseudopygmephorus latipilosus, Pyemotidae, Zoogeography.

2520-69

2520-69
RECORDS OF MASARID WASPS WITH
DESCRIPTIONS OF TWO NEW SPECIES OF
QUARTINIA ED. ANDRE (HYMENOPTERA).

O W Richards

Ann Mag Natur Hist 3(1.JAN-MAR):79-83

Mar 1969 410 AN77

Hymenoptera, Insect geography, Insect taxonomy.

2521-69

THE SUBGENERIC DIVISION OF THE GENUS BOMBUS LATRIELLE (HYMENOPTERA: APIDAE).

O W Richards

Brit Mus (natur Hist) Entomol Bull Suppl 22(5):209-276

1968 420 B773

Bombus, Catalogs, Insect geography, Insect taxonomy.

AUSTRALIAN HYMENOPTERA CHALCI-DOIDEA FAMILY EULOPHIDAE, SUBFAMILY ELASMINAE.

E F Rick

Australian J Zool 15(1):145-199

Fcb 1967 410 AU73

Catalogs, Eulophidae, Insect geography, Insect taxonomy

2523-69

OCCURRENCE OF AEDES INFIRMATUS D. K. IN ARIZONA.

P T Rigby

Mosquito News 28(2):239

Jun 1968 421 M85

Aedes, Arizona, Insect identification.

A NOTE ON THE NIGERIAN SPECIES OF THE GENUS SOSYLUS ERICHSON (COL. COLYDIDAE), PARASITES AND PREDATORS OF AMBROSIA BEETLES.

H Roberts

Ann Mag Natur Hist 3(1,JAN- MAR):85-91

Mar 1969 410 AN77

Colydiidae, Host relationships, Insect taxonomy, Platypodidac.

Records of ten species of Sosylus collected in Nigeria arc given, with details of its distribution and a listing of the host trees of its platypodid associates.

THE BIOLOGY AND DESCRIPTION OF A NEW SPECIES OF AFRICAN THYREUS, WITH LIFE HISTORY NOTES ON TWO SPECIES OF ANTHOPHORA (HYMENOPTERA: ANTHOPHORIDAE).

J G Rozen

N Y Entomol Soc J 77(1):51-60

Mar 1969 420 N481

Anthophora, Insect ecology, Insect nests, Insect taxonomy, Life cycle.

THREE NEW SPECIES OF BRAZILIAN MEMBRACIDAE BELONGING TO THE TRIBE HETERONOTINI. (POR)

A M Sakakibara

Rev Brosil Biol 28(3):307-315

Sep 1968 442.8 R326

Insect taxonomy, Mcmbracidae. English summary.

NEW SPECIES OF HOVER FLIES (DIPTERA, SYRHIDAE) FROM THE CAUCASUS.

A A Shtakel'berg

Entomol Rev 47(1, JAN-MAR):133-135

Mar 1968 421 R322AE

Insect geography, Insect taxonomy, Syrphidae.

2528-69

NOTES ON ALASKAN MOSQUITO RECORDS.

K M Sommerman

Mosquito News 28(2):233-234

Jun 1968 421 M85

Aedes canadensis, Aedes cinercus, Aedes vexans, Insect geography, Insect identification.

A NEW GENUS AND TWO NEW SPECIES OF ARBOREAL OPPIIDAE (ACARI: CRYPTOSTIG-MATA) FROM NEW ZEALAND.

A V Spain

Pacific Insects 11(1):155-163

1969 421 P11

Insect ecology, Insect geography, Insect taxonomy, Oppiidae.

NUMERICAL CLASSIFICATION OF THE CANADIAN SPECIES OF THE GENUS AEDES (DIPTERA: CULICIDAE).

C C Steward

Syst Zool 17(4):426-437 REF

Dec 1968 410 SY8

Adults, Aedes, Insect taxonomy, Larvae, Methodology.

2531-69

NEW ORTHOPTERA FROM AFGHANISTAN. (RUS)

M V Stolyarov

Zool Zhur 47(12):1794-1799

Dec 1968 410 R92

Insect taxonomy, Orthoptera, English abstract

ACLERDAEPHAGUS PLANUS SUGONJAEV GEN. ET SP. N. (HYMENOPTERA, APHELINIDAE)--PARASITE OF NIP-PONACLERDA TURANICA ARCH. IN SOUTH TAJIKISTAN. (RUS)

E S Sugonjaev

Zool Zhur 48(2):290-292

Fcb 1969 410 R92

Aphclinidae, Coccidae, Host relationships, Insect taxonomy, Parasitic insects. English abstract

2533-69

A NEW SPECIES OF THE GENUS BRUCHUS L. (COLEOPTERA, BRUCHIDAE) FROM THE USSR.

M Ye Tcr-Minasyan

Entomol Rev 47(1,JAN-MAR):105-106

Mar 1968 421 R322AE

Bruchidae, Catalogs, Insect taxonomy.

THE GENUS COCCIDOXENUS CRAWFORD, SYNONYM OF TRICHOMASTHUS THOMSON, 1875 (HYMENOPTERA, ENCYR-TIDAE).

V A Tryapitsyn

Entomol Rev 47(1,JAN-MAR):125

Mar 1968 421 R322AE

Encyrtidae, Insect names, Insect taxonomy.

2535-69

SOME NEW HELICONIUS PUPAE: THEIR TAXONOMIC AND EVOLUTIONARY SIGNIFICANCE IN RELATION TO MIMICRY (LEPIDOPTERA, NYMPHALIDAE).

J R G Turner

J Zool 155(3):311-325 REF

Jul 1968 410.9 L84P

Insect evolution, Insect taxonomy, Mimiery, Nymphalidac, Pupae.

2536-69

SPECIES OF THE GENUS PHYSCUS HOW. (HYMENOPTERA, CHALCIDOIDEA), PARASITES OF SCALE INSECTS IN THE USSR.

V A Vasnosh

Entomol Rev 47(1,JAN-MAR):117-124 REF Mar 1968 421 R322AE

Catalogs, Chalcidoidea, Insect geography, Insect taxonomy, Parasitic insects.

PRELIMINARY REPORTS ON THE LEPIDOP-TERA OF MOUNT TERMINILLO.

S Zangheri

Accad Noz Itol Entomol Atti 8:191-217 MAP REF 1960 420 AC2

Insect identification, Lepidoptera, Tables (data), Zoogcography. German summary. listing of many

#### PHYSIOLOGY AND BIOCHEMISTRY

2538-69

COMPERIELLA BIFASCIATA HOW. ENCYRTIDAE), (HYMENOPTERA. PARASITE OF THE SPRUCE SCALE IN ADZ-HARIA.

N G Agekyan

Entomol Rev 47(1 JAN-MAR):24-25

Mar 1968 421 R322AE

Coccoidea, Encyrtidae, Host range, Insect ecology, Life cycle, Parasitic insects.

2539-69

ON FOOD FORMS OF THE FLAT-HEADED PEAR-BORER AGRILUS VIRIDIS (COLEOP-TERA, BUPRESTIDAE). (RUS)

A V Alcxecv

Zool Zhur 48(1):85-92

Jan 1969 410 R92

Agrilus, Food habits, Host relationships, Insect ecology, Insect morphology, Polymorphism. English abstract

OVERWINTERING HABITS OF ORTHOPODO-MYIA CALIFORNICA BOHART (DIPTERA: CULICIDAE).

D C Baerg

Mosquito News 28(2):234-235

Jun 1968 421 M85

Hatching, Hibernation, Life cycle, Orthopodomyia, Temperature.

BIOCHEMISTRY OF THE DEVELOPMENT OF THE INSECTS DACUS OLEAE AND CERATITIS CAPITATA-EVOLUTION OF TOTAL FATTY ACIDS.

C Barroso A M Municio A Ribera

Compar Biochem Physiol 28(1):239-244 REF Jan 1969 444.8 C73

Ceratitis capitata, Dacus oleae, Development, Fatty acids, Insect biochemistry, Insect physiology.

FIRST APPLICATIONS OF BIOLOGICAL CONTROL OF AONIDIELLA AURANTII IN MOROCCO. (FR )

C Benassy G Euverte Awamio (21):19-25

Oct 1968 24 AW1

Aonidiella aurantii, Aphytis lingnancusis, Aspidiotus hederac, Biological control (insects), Citrus, Insect rearing, Orchards, Parasitism. English, Spanish and Arabic summaries.

2543-69

NOSEMA DISEASE OF HONEY BEES.

F S Benecke

Agr Gaz New S Wales 79(5):274-279

May 1968 23 N472

Acetic acid, Apiculture, Fumagillin, Host relationships, Insect mortality, Life cycle, Nosema apis, Palynology, Weather.

The environmental conditions which influence the development of nosema disease in honey bees and the effect that the disease has on workers, queens and the entire colony are discussed. Fumagillin and glacial acetic acid fumigation are the recommended control measures.

MEIGENIA MUTABILIS FALL. (DIPT. TACHINIDAE) AS A PARASITE OF OULEMA MELANDPA L. AND ITS RELATION TO LEPTINOTARSA DECEMLINEATA SAY. (SE)

P Bjcgovic Zastita Biljo 18(93/95):93-100

1967 464.8 Z1 Chrysomelidac, Insect biology, Insect pests, Leptinotarsa decemlineata, Oulema melanopa, tinotarsa decemlineata, Oulema melane Parasitic insects, Tachinidae. English summary. melanopa,

A TACHINID PARASITE OF AUSTRALIAN GRASSHOPPERS.

R E Blackith

Austrolian J Zovl 15(4):745-758 MAP REF Aug 1967 410 AU73

Acrididae, Host range, Insect geography, Insect morphology, Parasitic insects, Tachinidae.

A Tachnid parasite of Morabinae grasshoppers is described along with its distribution and host range in Australia.

FLIGHT MUSCLE VOLUME CHANGE IN IPS CONFUSUS (COLEOPTERA: SCOLYTIDAE). J H Borden C E Slater

Can J Zool 47(1):29-32 REF

#### BIBLIOGRAPHY

2547-69

Jan 1969 470 C16D

Insect anatomy, Insect flight, Insect physiology, Ips confusus, Measurement, Muscles, Volumetric analysis.

THE USE OF DROSOPHILA MELANOGASTER MEIG., CALANDRA ORYZAE L. AND TRIBOLIUM CONFUSUM DUV. FOR THE DETECTION OF PESTICIDES AND FOR THE EVALUATION OF SOME EXTRACTIVE TECHNIQUES. (IT)

A R Borgatti A Cesari R Stanzani Giornate Fitopatol 105-113 REF 26 Mar 1967 SB599.G5

Calandra oryzae, Chlorinated hydrocarbons, Drosophila melanogaster, Endrin, Insect physiology, Malathion, Organophosphorus compounds, Parathion, Pesticide residues, Tribolium confusum. Several other pesticides were tested.

REARING THREE SPECIES OF FRUIT-SUCKING MOTHS ON ARTIFICIAL DIETS. I Bot

S Afr J Agr Sci 10(4):1009-1014 Dec 1967 24 SU3

Culture media, Insect rearing, Lepidoptera, Synthetic diets.

2519-69

STEROLS OF THE COMMON HOUSE CRICKET, ACHETA DOMESTICUS L.

G A Carls

Diss Abstr Sect B 29(3):931B-932B

Sep 1968 Z5055.U49D53

Acheta domesticus, Biochemistry, Chemurgy, Chromatography, Insect metabolism, Sterols.

ULTRASTRUCTURE OF PHOTORECEPTOR CELLS IN A VITAMIN ADEFICIENT MOTH (MANDUCA SEXTA).

S D Carlson G Gemne W E Robbins Experientia 25(2):175-177 REF 15 Feb 1969 475 EX7

Electron microscopy, Insect cytology, Insect morphology, Manduca sexta, Rctina, Vitamin a.

2551-69

NEW OBSERVATION ON THE ORIGIN AND LOCALITY OF THE MICROTUBULES IN THE ERGASTOPLASM IN THE MIGRATOR LOCUST. LOCUSTA MIGRATORIA MIGRATORIA (R. AND F.). (FR.)

P Cassier M-a Fain-Maurel

Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):537-539 REF

20 Jan 1969 505 P21

Electron microscopy, Insect cytology, Insect morphology, Locusta migratoria, Metamorphosis.

2552-69

MASS ISOLATION OF MALARIA SPOROZOITES FROM MOSQUITOES BY DEN-SITY GRADIENT CENTRIFUGATION.

D H Chen I Schneider

Soc Exp Biol Med Proc 130(4):1318-1321

Apr 1969 442.9 SO1 Aedes aegypti, Centrifugation, Methodology, Plasmodium gallinaceum.

A POPULATION STUDY OF PHAULACRIDIUM VITTATUM SJOST. (ACRIDIDAE). D P Clark

Australian J Zool 15(4):799-872 MAP REF Aug 1967 410 AU73

Acrididae, Demography, Diapause, Food habits, Life cycle, Weather.

The life cycle of Phaulacridium vittatum and enviornmental conditions affecting the survival of each stage in its development are discussed.

GENOTYPES AND ENVIRONMENT IN THE DETERMINATION OF THE GROUND- AND WINGED FORMS OF APHIDS. (IT) G Cognetti

Accad Naz Ital Entomol Atti 8:99-101 1960 420 AC2

Aphididae, Environment, Genotypes, Insect genetics, Insect rearing, Parthenogenesis, Wings

THE IMPORTANCE OF BUCCO-PHARYN-GEAL ARMATURE IN ANOPHELES AND CULEX IN RELATION TO DIROFILARIA IN-FECTION. (IT)

M Coluzzi R Trabucchi

Parassitologia 10(1):47-60 REF

Jul 1968 436.8 P212

Anopheles, Biological control, Culex, Dirofilaria, Insect morphology, Insect vectors. English summa-

2556-69

NOTES ON THE SPOROGONIC STAGES OF PLASMODIUM (GIOVANNOLAIA) POLARE IN CULISETA LONGIAREOLATA. (IT )

A Corradetti M Scanga Parassitologia 10(1):1-10

Jul 1968 436.8 P212 Culiscta, Disease transmission, Histology, Insect vectors, Plasmodium. English summary.

THE FOOD AND FEEDING RELATIONSHIPS
OF THE COMMON MESO AND MACROFAUNA
IN THE MAHA OYA, A SMALL MOUNTAINOUS STREAM AT PERADENIYA, CEYLON.

H H Costa E C M Fernando

Cevlon J Sci Biol Sci 7(1-2):74-90 MAP REF Oct 1967 475 C33

Aquatic animals, Aquatic insects, Aquatic plants, Feeding, Fish, Food, Invertebrates, Streams.

THE SENSORY PHYSIOLOGY OF THE LARVA OF THE RHINOCEROS BEETLE ORYCTES RHINOCEROS L.

H H Costa V K Ganesalingam Ceylon J Sci Biol Sci 7(1/2):52-73 REF

Oct 1967 475 C33

Coconuts, Humidity, Insect behavior, Insect pests, Larvae, Oryctes rhinoceros, Smcll, Temperature.

STUDY OF SOME INJURIES INDUCED BY X-RAYS IN THE FIRST STAGE LARVAE OF BOMBYX MORI. (FR.)

M. Coulon

Acad Sci Compt Rend Ser D Sci Nat 268(6, IST SEMESTER):959-962

10 Feb 1969 505 P21

Bombyx mori, Insect mortality, Insect mutation, Irradiation, Larvae.

MITOTIC ACTIVITY IN IN VITRO CULTURE, IN THE OCCULOANTENNAL DISCS OF CAL-LIPHORA ERYTHROCEPHALIA MEIG. LAR-VAE (INSECTA, DIPTERA). (FR)

A M Courgeon

Acad Sci Compt Rend Ser D Sci Nat 268(6, 1ST SEMESTER):950-952

10 Feb 1969 505 P21

Antennae, Calliphoridae, Insect cytology, Larvae,

2561-69

ON THE DETERMINATION OF AGE STRUCTURE OF THE LARVAE OF TENDIPEDIDAE (DIPTERA).

B Czeczuga E Bobiatynska-Ksok E Niedzwiecki Zool Pol 18(3):317-328 REF

1968 410 Z712

Aging, Head capsule, Insect morphology, Larvae, Tendipedidae.

THE EFFECT OF PESTICIDE APPLICATION AT THE END OF WINTER, ON THE WINTER EGGS OF PANONYCHUS ULMI KOCH. (IT) I Da Tripoli A Gelosi A Ugolini Giornate Fitopatol 389-391

26 Mar 1967 SB599.G5

Apples, Chemical control (insects), Insect eggs, Inpounds, Panonychus ulmi, Parathion, Peaches, Petroleum.

A METHOD FOR COMPARING FEEDING RATES IN MOSQUITO LARVAE.

R H Dadd

Mosquito News 28(2):226-230

Jun 1968 421 M85

Carbon, Culicidac, Food habits, Insect feeding, Larvae, Methodology.

2564-69

A COMPARATIVE STUDY OF EMBRYOGENE-SIS IN THE MOSQUITO CULEX FATIGANS WIEDEMANN (DIPTERA: CULICIDAE) AND THE SHEEP-FLY LUCILIA SERICATA MEIGEN (DIPTERA: CALLIPHORIDAE). I. DESCRIPTION OF EMBRYONIC DEVELOP-MENT.

C W C Davis

Australian J Zool 15(3):547-579 REF

May 1967 410 AU73

Culex quinquefasciatus, Embryogenesis, Larvae, Phaenicia sericata.

2565-69

EFFECT OF DIETARY SERINE ON SURVIVAL AND RATE OF DEVELOPMENT OF ORYZAEPHILUS SURINAMENSIS (COLEOP-TERA: SILVANIDAE).

G R F Davis

Can Entomol 101(1):27-31 REF

Jan 1969 421 C16

Biosynthesis, Diet, Glycine, Humidity, Insect nutrition, Oryzaephilus surinamensis, Serine, Sil-

2566-69

A COMPARISON TRIAL OF PACKAGE BEES OBTAINED FROM DIFFERENT TRADE SOURCES.

A S C Deans

Scot Agr 47(3,SUMMER):153-156

1968 10 SCO82SO

Apiculture, Bees, Crop yields, Honey.

PSEUDO-ALLOSTERIC BEHAVIOR OF FIREFLY LUCIFERASE.

J Denburg M DeLuca

Biochem Biophys Res Commun 31(3):453-460 10 May 1968 442.8 B5236

Assay, Biochemistry, Enzymes, Fluorescence, Hydrolysis, Insect physiology, Kinetics, Lampyridae, Luciferase, Pyrophosphatases.

DISTRIBUTION OF THE FACE FLY, MUSCA AUTUMNALIS (DIPTERA: MUSCIDAE), IN WESTERN CANADA AND THE RELATION BETWEEN ITS ENVIRONMENT AND POPULA-TION DENSITY.

K R Depner

Can Entomol 101(1):97-100 MAP REF

Jan 1969 421 C16

Climate, Insect migration, Musca autumnalis, Muscidae, Zoogeography.

THE STRUCTURE OF THE HINDGUT AND ASSOCIATED STRUCTURES OF THE LARVA OF SESAMIA CALAMISTIS HAMPSON (LEPIDOP-TERMINOCEPHINOCEPHIND) TERA: NOCTUIDAE).

H J R Durr

S Afr J Agr Sci 10(3):723-734 REF

Sep 1967 24 SU3

Gastrointestinal system, Insect histology, Insect morphology, Sesamia calamistis.

2570-69

THE ISOLATION AND BIOPHYSICAL CHARACTERIZATION OF AN INSECT VIRUS FROM PACHYPASA CAPENSIS (LEPIDOP-TERA: LASIOCAMPIDAE). L P van Dyk V de Villiers

S Afr J Agr Sci 10(4):969-979 REF

Dec 1967 24 SU3

Biological control, Biophysics, Insect diseases, Lasiocampidae, Polyhedroses, Virus diseases (insects).

#### 2571-69

STRUCTURE, FUNCTION AND DEVELOP-MENT OF THE RECTAL APPARATUS FOR FORMING EXCREMENTS (KOTPRESSE) OF CENTRAL EUROPEAN CLYTRINAE AND CRYPTOCEPHALINAE (COLEOPTERA, CHRYSOMELIDAE).

D Erber

Z Morphol Okolog Tiere 62(3):245-306 REF 1968 442.8 Z33

Chrysomelidae, Excreta, Insect anatomy, Insect eggs, Insect histology, Insect morphology, Larvae, Rectum. English summary.

#### 2572-69

WHOLE-BODY TURNOVER OF SODIUM IN ADULT DROSOPHILA (DROSOPHILADAE) AND MEGASELIA (PHORIDAE).

L D Fairbanks G E Burch

Physiol Zool 41(4):401-411

Oct 1968 410 P56

Drosophila melanogaster, Drosophila repleta, Insect metabolism, Megaselia scalaris, Radioactive isotopes, Sodium.

#### 2573-69

LABORATORY REARING OF THE PEPPER MAGGOT, ZONOSEMATA ELECTA (SAY) (DIPTERA: TEPHRITIDAE).

W H Foott

Entomol Soc Ontario Proc 98:18-21

1967 420 ON8

Insect eggs, Insect morphology, Insect rearing, Laboratories, Larvae, Ovipositors, Tephritidae, Zonosemata electa.

#### 2574-69

THE IMPORTANCE OF SOLANUM CAROLINENSE L. AS A HOST OF THE PEPPER MAGGOT, ZONOSEMATA ELECTA (SAY) (DIPTERA: TEPHRITIDAE) IN SOUTHWESTERN ONTARIO.

W H Foott

Entomol Soc Ontario Proc 98:16-18

1967 420 ON8

Diptera, Insect behavior, Insect rearing, Solanum carolinense, Tephritidae, Zonosemata electa.

#### 2575-69

THE STYLETS OF THE GREEN PEACH APHID, MYZUS PERSICAE (HOMOPTERA: APHIDIDAE).

A R Forbes

Can Entomol 101(1):31-41 REF

Jan 1969 421 C16

Aphididae, Electron microscopy, Insect anatomy, Insect morphology, Myzus persicae, Stylets.

#### 2576-69

ON THE GENERIC POSITION OF PLESIOCERA FLAVIFRONS BECKER AND OF A FEW RELATED SPECIES (DIPTERA, BOMBYLIIDAE).

F J J Francois

Inst Roy Sci Natur Belg Bull 43(39):8P REF

31 Dec 1967 504 B835B

Bombyliidae, Insect anatomy, Insect identification, Insect morphology, Insect names, Insect physiology. French summary.

#### 2577-69

QUANTITATIVE SAMPLING OF THE PSEU-DOSCORPION CHTHONIUS ISCHNOCHELES FROM BEECH LITTER.

P D Gabbutt

J Zool 151(4):469-478

Apr 1967 410.9 L84P

Chelonethida, Demography, Insect population statistics, Soil microorganisms, Surveys.

#### 2578-69

THE EXTERNAL MORPHOLOGY AND LIFE HISTORY OF THE PSEUDOSCORPION MICROCREAGRIS CAMBRIDGEI.

P D Gabbutt M Vachon

J Zool 154(4):421-441

Apr 1968 410.9 L84P

Chelonethida, Insect hiology, Insect morphology, Insect taxonomy.

#### 2570.60

SOME OBSERVATIONS ON THE EMBRYONIC DEVELOPMENT OF THE EXTERNAL GENETALIA IN THE COLLEMBOLAN ANURIDA MARITIMA GUERIN. (FR)

M Garaudy-Tamarelle

Acad Sci Compt Rend Ser D Sci Not 268(6, 1ST SEMESTER):945-947

10 Feb 1969 505 P21

Collembola, Development, Embryology, Insect morphology, Reproductive organs.

#### 2580-69

A HISTOLOGICAL STUDY OF NEUROSECRETION IN ANTS (FORMICOIDEA).

R B Gawande

Acta Ent Bohemoslov 65(5):349-363 REF 20 Sep 1968 420 C33

Formicidae, Insect histology, Neurosecretion. Czech summary.

#### 2581-69

THE POSSIBILITIES OF THE APPLICATION OF PATHOGENIC BACTERIA FOR THE CONTROL OF DEFOLIATING CATERPILLARS (ABSTRACT). (FR

P Grison

Entomophaga 7(3):269-270

1962 421 EN835

Bacillus thuringiensis, Biological control (insects), Caterpillars, Defoliation, Forests, Fruit culture, Integrated control (pests), Orchards, Pathogenic bacteria. Influence on many insect species is discussed. report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

#### 2582-69

STUDIES ON THE CONTROL OF MOSQUITOES IN EGYPT BY MEANS OF CHEMOSTERILANTS. I. CHEMOSTERILIZATION OF ANOPHELES PHAROENSIS.

M Hafez A E Aboul-Nasr H S Salama J Econ Entomol 62(1):233-234

17 Feb 1969 421 J822

Anopheles pharoensis, Biological control (insects), Breeding, Chemical control (insects), Chemosterilants, Diet, Hempa, Tepa.

#### 2583-69

NEW TRAPPING AND RECORDING METHODS FOR INVESTIGATIONS INTO THE MIGRATION PHENOMENON OF VIRUS-TRANSMITTING INSECTS. (GE

E Haine

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):113-117 REF

Feb 1967 410.9 G31M

Aphididae, Atmosphere. Insect collection, Insect flight, Insect vectors, Suction traps, Virus diseases plants. English abstract

#### 2584-69

STUDY OF SEVERAL PHYSIOLOGICAL AND BIOLOGICAL CHARACTERISTICS IN THE THIRD INSTAR OF MELOLONTHA MELOLONTHA L. LARVAE WHICH HAVE BEEN CONTAMINATED BY TWO PATHOLOGIC AGENTS. (FR)

N Hawlitzky

Acad Sci Compt Rend Ser D Sci Not 268(6, 1ST SEMESTER):941-944

10 Feb 1969 505 P21

Bacillus popilliae, Insect diseases, Insect physiology, Insect respiration, Larvae, Melolontha melolontha, Metamorphosis, Rickettsia.

#### 2585-69

INTRACELLULAR DISTRIBUTION OF BETA-GLUCURONIDASE ACTIVITY DURING METAMORPHOSIS OF THE HOUSEFLY, MUSCA DOMESTICA L.

B M Hegdekar B N Smallman

Can J Zool 47(1):45-49 REF

Jan 1969 470 C16D

Cells, Enzymes, Insect biochemistry, Lysosomes, Metamorphosis, Microsomes, Musca domestica.

#### 2586-69

GALL MIDGES (DIPTERA-CECIDOMYIIDAE) AND THEIR PARASITES (HYMENOPTERA) LIVING IN FEMALE BIRCH CATKINS.

S Hodges

Soc Brit Entomol Trons 18(9):195-225 REF

Mar 1969 420 SO15

Betula, Cecidomyiidae, Gall-making insects, Hymenoptera, Insect biology, Insect ecology, Insect morphology, Parasitic insects, Population.

#### 2587-69

INTER-RACIAL MATING OF A NON-DIAPAUS-ING AND A DIAPAUSING RACE OF TELEOGRYLLUS COMMODUS (WALK.) (ORTHOPTERA: GRYLLIDAE).

T W Hogan

Australian J Zool 15(3):541-545

May 1967 410 AU73

Biological control (insects), Insect diapause, Insect genetics, Insect rearing, Teleogryllus commodus.

#### 588-69

THE TOXIC EFFECT OF HERBICIDES UPON ANTS AND EARTHWORMS. (RUS

A M Iljin

Zool Zhur 48(1):141-143

Jan 1969 410 R92

Biological assay, Earthworms, Formicidae, Herhicides, Toxicology, English abstact

#### 2589-69

THE USE OF COELOCONIC SENSILLAE ON THE FEMALE ANTENNA IN DIFFERENTIATING THE MEMBERS OF THE ANOPHELES GAMBIAE GILES COMPLEX.

I A H Ismail E I Hammound

World Health Organ Bull 38(5):814-821 1968 449.9 W892B

Anopheles, Anopheles gambiae, Antennae, Insect anatomy, Insect identification, Sense organs.

#### 2590-69

SEX PHEROMONE OF THE PINK BOLLWORM MOTH: BIOLOGICAL MASKING BY ITS GEOMETRICAL ISOMER.

M Jacohson

Science 163(3863):190-191 REF

10 Jan 1969 470 SC12

Biochemistry, Chromatography, Insect physiology, Isomers, Moths, Pectinophora gossypiella, Pheromones.

#### 2591-69

REPRODUCTION IN THE PYRALIDIDAE (LEPIDOPTERA). I. POST-EMBRYONIC DEVELOPMENT AND STRUCTURE OF THE MALE REPRODUCTIVE SYSTEMS OF CADRA CAUTELLA AND PLODIA INTERPUNCTELLA. P C Joubert

S Afr J Agr Sci 10(3):707-722

Sep 1967 24 SU3

Cadra cautella, Development, Insect morphology, Plodia interpunctella, Reproductive organs.

#### 2592-69

STUDIES ON THE BYRON BOG IN SOUTHWESTERN ONTARIO XXXIII. DISTRIBUTION OF DYTISCIDAE AND HYDROPHILIDAE (COLEOPTERA) IN THE BOG.

W W Judd

Entomol Soc Ontario Proc 98:48-52 MAP 1967 420 ON8

Bogs, Coleoptera, Dytiscidae, Environment, Hydrophilidae, Insect collection, Insect dissemination, Research, Zoogeography.

2593-69

INVESTIGATION OF THE EFFECT OF GOVERNING CHEMICAL COMPOUNDS IN TREES ON BARK BEETLE ORIENTATION. (GE)

E Kangas

Z Angew Entomol 61(4):353-364 REF

May 1968 421 Z36

Attractants, Hibernation, Humidity, Insect behavior, Light, Olfactometers, Phloem, Pinus syl-vestris, Temperature, Terpineol, Tomicus piniperda. English summary

2594-69

ECOLOGY OF LACCIFER LACCA KERR (HOMOPTERA, COCCOIDEA) UNDER THE CONDITIONS OF THE BLACK SEA COAST OF GEORGIA.

Z K Khadzhibeyli

Entomol Rev 47(1,JAN-MAR):5-9

Mar 1968 421 R322AE

Food plants, Insect ecology, Insect rearing, Laccifer lacca, Temperature.

2595-69

CONSUMPTION OF NUTRITIONAL RESERVES BY HUNGRY FEMALES IXODES PERSUL-CATUS P. SCH. DURING THE LIFE CYCLE. (RUS)

P G Khizhinskii

Med Parazitol Parazitarn Bolezni 37(3,MAY-IUN):291-297 REF

1968 448.8 M469

Forests, Hibernation, Insect adaptation, Insect nutrition, Insect physiology, Ixodes persulcatus, Molting (insects), Temperature. English summary.

2596-69

OOSORPTION IN NASONIA VITRIPENNIS (HYMENOPTERA: PTEROMALIDAE).

P E King J G Richards J Zool 154(4):495-516 REF

Apr 1968 410.9 L84P

Absorption (biological), Aging, Insect biochemistry, Insect physiology, Insect reproduction, Nasonia vitripennis.

DEVELOPMENTAL CHANGES IN THE LATE LARVA OF CALLIPHORA STYGIA. I. HAEMOLYMPH.

J F Kinnear M-d Martin J A Thomson G J Neufeld

Australian J Biol Sci 21(5):1033-1045 REF Oct 1968 442.8 AU72

Calliphora stygia, Chemical analysis, Development, Electrophoresis, Hemolymph, Larvae.

2598-69

COMPARATIVE MORPHOLOGY OF THE LAR-VAE OF CERTAIN GENERA OF FLEAS (APHANIPTERA).

A N Kir'yakova

Entornol Rev 47(1, JAN-MAR):41-46 REF

Mar 1968 421 R322AE

Catalogs, Insect morphology, Insect taxonomy, Larvae, Pulex, Siphonaptera, Xenopsylla.

LUCIFERIN AND LUCIOPTERIN ISOLATED FROM THE JAPANESE FIREFLY, LUCIOLA CRUCIATA.

Y Kishi S Matsuura S Inoue O Shimomura T Goto

Tetrahedron Lett (24):2847-2850

Apr 1968 385 T29

Chromatography, Fluorescence, Insect biochemistry, Luciferins, Luciola cruciata, Luciopterin. Leuciopteridine identified as 8-methyl-1,2,3,4,7,8-hex-ahydro-2,4,7-trioxopteridine.

GENERAL CONSIDERATIONS ON THE SIG-NIFICANCE OF PREDATORS AND PARASITES IN ORCHARDS.

D J Kuenen Entomophaga 7(3):221-226 1962 421 EN835

Balance of nature, Biocenosis, Fungicides, Insecticides, Orchards, Parasitism, Predaceous insects, Spraying. French summary, report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

OVIPOSITION CYCLES AND THE STIMULUS FOR OVIPOSITION IN DERMESTES MACU-DEGEER (COLEOPTERA: DERMESTIDAE).

A M Ladduwahetty

Ceylon J Sci Biol Sci 7(1/2):128-138 REF

Oct 1967 475 C33

Dermestes maculatus, Insect behavior, Insect eggs, Ovulation.

COMPARATIVE MORPHOLOGY OF THE MALE AUSTRALIAN NEPIDAE (HEMIPTERA: AETEROPTERA).

1 Lansbury

Australian J Zool 15(3):641-649 REF

May 1967 410 AU73

Insect morphology, Nepidae, Reproductive organs, Venation (insects)

SEASONAL FLUCTUATIONS IN THE PROTOZOAN PARASITES OF THE CENTIPEDES LITHOBIUS VARIEGATUS AND LITHOBIUS FORFICATUS IN A YORKSHIRE WOODLAND.

J G E Lewis

J Zool 151(1):163-169

Jan 1967 410.9 L84P

Chilopoda, Parasites, Protozoa, Seasonal variation,

2604-69

DETERMINATION OF THE MOLECULAR WEIGHT OF PROTEINS, ESTERASES, AND BASIC PHOSPHO-MONOESTERASES IN THE HEMOLYMPH OF GALLERIA MELLONELLA L. PREPUPA AND PUPA USING A THINLAYER CHROMATOGRAPHY.

M Marek

Experientia 25(2):136-137 REF

15 Feb 1969 475 EX7

Chromatography, Esterases, Galleria mellonella, Hemolymph, Insect biochemistry, Phosphatases, Proteins.

2605-69

A TEST OF THE IMMEDIATE AND RESIDUAL EFFICACY OF SOME PHOSPHOROUS ESTERS AGAINST THE LARVAE OF THE OLIVE FRUIT FLY (DACUS OLEAE GMELIN). (IT) G M Martelli O Casilli

Giornate Fitopatol 383-386

26 Mar 1967 SB599.G5

Chemical control (insects), Dacus oleae, Dimethoate, Ekatin, Insecticide residues, Larvae, Phosphamidon.

THE STRUCTURE, FUNCTION IMAGINAL DEVELOPMENT OF THE FEMALE INNER REPRODUCTIVE ORGANS OF ADELPHOCORIS LINEOLATUS (GOEZE), ADELPHOCORIS LINEOLA (HETEROPTERA, MIRIDAE).

P Masner

Acta Ent Bohemoslov 63(3):177-199 REF

1966 420 C33

Adelphocoris lineolatus, Insect anatomy, Insect morphology, Insect physiology, Miridae, morphology, Insect physiology, Reproductive organs. Czech summary.

SOME DATA ON THE FAUNA AND ECOLOGY OF THE TABANID FLIES (DIPTERA, TABANIDAE) OF NORTH BELORUSSIA.

A G Mayevskiy

Entomol Rev 47(1,JAN-MAR):50-53

Mar 1968 421 R322AE

Climate, Habitats, Insect ecology, Surveys, Tabanidae.

2608-69

ROLE OF SALTS IN OVIPOSITION SITE SELECTION BY THE BLACK SALT-MARSH MOSQUITO, AEDES TAENIORHYNCHUS (WIEDEMANN).

W H McGaughey

Mosquito News 28(2):207-217 REF

Jun 1968 421 M85

Aedes taeniorhynchus, Insect behavior, Oviposition, Sulfates

Aedes taeniorhynchus, a salt-marsh mosquito, responded to sulfates in pure solution and in combination with other salts on the oviposition substrate. The response appeared to be due to the chemical and was independent of osmotic pressure except at higher levels where such solutions may be repellent. Normal oviposition occurred on distilled water because of its non-repellent nature.

2609-69

DEFENSIVE MECHANISMS OF ARTHROPODS, XXIII. AN ALLENIC SESQUITERPENOID FROM THE GRASSHOPPER ROMALEA MICROPTERA.

J Meinwald K Erickson M Hartshorn Y C

Meinwald T Eisner

Tetrahedron Lett (25):2959-2962

May 1968 385 T29

Arthropoda, Chromatography, Insect protective devices, Insect repellents, Romalea microptera, Secretion, Sesquiterpenoids.

ORIENTATION AND PROGRESS IN THE STU-DIES ON THE PARASITISM OF EN-TOMOPHAGOUS INSECTS. (IT)

E Mellini

Accad Naz Ital Entomol Atti 8:62-85 REF 1960 420 AC2

Entomology, Environment, Insect biology, Insect morphology, Parasitism, Predaceous insects, Research.

LARVA, PUPA AND LIFE HISTORY OF THREE SPECIES OF IBIDIONINI (COLEOPTERA, CERAMBYCINAE). F R Meyer

Sao Paulo Dep Zool Papeis Avulsos 20(14):147-158

11 Jul 1967 410.9 SA63

Cerambycidae, Compsa albopicta, Compsa monrosi, Gnomidolon varians, Ibidionini, Insect biology, Insect pests, Insect taxonomy, Larvae, Ornamental plants, Pupae.

2612-69

IDENTIFICATION OF PTERIDINES IN AEDES AEGYPTI (L.).

D W Micks J Jennings K Barnes Mosquito News 28(2):191-192

Jun 1968 421 M85

Aedes aegypti, Chromatography, Insect biochemistry, Insect identification, Pteridine.

COMMUNITY STUDIES ON HYMENOPTERA FOUND ON BRASSICA NAPUS L. PART VI. CHALCIDOIDEA. (POL )

B Miczulski

Pol Pismo Entomol 38(2):341-385 REF 1968 421 P76

Chalcidoidea, Hymenoptera, Insect adaptation, Insect biology, Insect collecting equipment, Insect identification, Insect pests, Larvae, Nomenclature, Parasites, Rape, Tables (data). English summary.

THE PASSIVE DISPERSAL OF VIABLE ALGAE AND PROTOZOA BY AN AQUATIC BEETLE.

L E Milliger H E Schlichting

Amer Microscop Soc Trans 87(4):443-448 REF Oct 1968 440.9 AM33

Algae, Aquatic insects, Gastrointestinal system, Insect biology, Protozoa.

SCHIZECKENOSY: THE SUBSTITUTE FOR DEFECATION IN CHIGGER MITES.

R Mitchell M Nadchatram

Ann Mag Natur Hist 3(1,JAN-MAR):121-124 Mar 1969 410 AN77

Excretion, Feces, Insect morphology, Insect physiology, Mites, Trombiculidae.

A new term schizeckenosy is proposed for a process of defecation in which a mite lacking both an anus and a hind gut extrudes a faeces-filled gut lode through a rupture in a specific region of the body wall.

2616-69

PARASITES OF SPHAEROLECANIUM PRU-FONSC. (HOMOPTERA, COC-NASTRI COIDEA). (SE)

N Mitic-Muzina

Zastita Bilja 19(93/95):183-187

1967 464.8 Z1

Chalcidoidea, Coccoidea, Homoptera, Insect identification, Parasitism, Predaceous insects. French summary. 10 species of parasites are

THE DISTRIBUTION AND ACTIVITY LEVELS OF CARBOHYDRASES IN THE ALIMENTARY CANAL OF THE COCKROACH, BLABERUS CRANIIFER BURMEISTER.

W W D Modder

Ceylon J Sci Biol Sci 7(1/2):9-23 REF

Oct 1967 475 C33

Blaberus craniifer, Blattidae, Carbohydrases, Digestion, Gastrointestinal system, Salivary glands.

SPECIFICITIES OF ALIMENTARY
L CARBOHYDRASES OF THE THE CANAL COCKROACH, BLABERUS CRANIIFER BUR-MEISTER.

W W D Modder

Ceylon J Sci Biol Sci 7(1/2):24-31 REF

Oct 1967 475 C33

Blaberus craniifer, Blattidae, Carbohydrases, Enzymes, Gastrointestinal system, Hydrogen-ion concentration, Temperature.

THE STRUCTURE OF THE ALIMENTARY CANAL AND SALIVARY GLANDS IN ACROTELSA COLLARIS (THYSANURA: LEPISMATIDAE).

W W D Modder

Ceylon J Sci Biol Sci 7(1/2):139-150

Oct 1967 475 C33

Acrotelsa collaris, Insect anatomy, Insect physiology, Intestines, Lepismatidae, Salivary glands.

CALCIUM ALGINATE: A NEW APPROACH IN THE ARTIFICIAL CULTURING OF INSECTS, APPLIED TO SPODOPTERA LITTORALIS (BOISDUVAL).

I Moore A Navon

Experientia 25(2):221-222

15 Feb 1969 475 EX7

Alginic acid, Culture media, Insect rearing, Methodology, Spodoptera, Synthetic diets.

INFLUENCE OF SOME ENVIRONMENTAL FACTORS ON THE VIABILITY AND HATCHING OF AEDES AEGYPTI (L.) EGGS.

M S Mulla M F B Chaudhury

Mosquito News 28(2):217-221 REF

Jun 1968 421 M85

Aedes aegypti, Ascorbic acid, Hatching, Humidity, Insect eggs, Mortality, Temperature.

The hatching of eggs of Aedes aegypti was found to have a direct relationship to humidity and an inverse relationship to temperature and to be dependent on a stimulus such as ascorbic acid at o.l percent solution.

2622-69

EFFECTS OF SURFACE TENSION ON PUPAE OF CULEX PIPIENS QUINQUEFASCIATUS SAY AND AEDES AEGYPTI (L.).

M S Mulla M F B Chaudhury

Mosquito News 28(2):187-191

Jun 1968 421 M85

Aedes aegypti, Aquatic insects, Culex pipiens quinquefasciatus, Insect morphology, Interfacial tension, Pupae.

The mortality of the tested mosquito pupae increased proportionately as the water surface tension was lowered by polydetergents.

ACID PHOSPHATASE ACTIVITY IN THE DIGESTIVE SYSTEM OF THE DESERT LOCUST SCHISTOCERCA GREGARIA (FOR-SKAL).

S N H Naqvi S H Ashrafi M A H Qadri Australian J Biol Sci 21(5):1047-1052 REF

Oct 1968 442.8 AU72

Acid phosphatase, Chemical activation, Gastrointestinal system, Insect biochemistry, Schistocerca

SELECTION OF PHASE TYPES BASED ON HOPPER COLORATION IN LOCUSTANA PAR-DALINA (WALKER).

M D Nel

S Afr J Agr Sci 10(3):823-829

Sep 1967 24 SU3

Insect breeding, Insect color, Insect migration, Locustana pardalina, Polymorphism.

2625-69

THE BIOLOGY OF SOME SPECIES OF ALAP-TUS (MYMARIDAE) PARASITISING EGGS OF PSOCOPTERA.

T R New

Soc Brit Entomol Trans 18(8):181-193 REF Mar 1969 420 SO15

Host records, Host relationships, Life cycle, Mymaridae, Parasitic insects, Parthenogenesis, Psocoptera.

2626-69

SUB-ZERO MORTALITY RESPONSES OF TRIBOLIUM CONFUSUM DUVAL (TWO STOCKS) AND T. CASTANEUM (HERBST) (FOUR STOCKS) ANALYZED BY WEIGHTED REGRESSION LINES BASED ON INDIVIDUAL TEMPERATURE LD50 S.

J A Nowosielski-Slepowron F L Waterhouse D E A Strevens

Physiol Zool 41(4):440-446 REF

Oct 1968 410 P56

Insect physiology, Lethal dose, Temperature. Tribolium castaneum, Tribolium confusum.

ESTERASES IN THE ONTOGENESIS OF THE HOUSE FLY MUSCA DOMESTICA. (RUS)

V S Odintzov V S Petrenko

Zool Zhur 48(1):146-148

Jan 1969 410 R92

Esterases, Insect biochemistry, Musca domestica, Ontogeny. English abstract

HONEY BEES ESSENTIAL FOR POLLINATION OF APPLE TREES.

T Palmer-Jones P G Clinch

New Zeal J Agr 116(5):32-33

May 1968 23 N48J

Apis mellifera, Apples, Crop yields, Food habits, Pollination.

Experiments showed that honey bees were by far the most effective pollinators of apple trees and it is suggested that fruit growers would profit from a small investment in procurement of hives by the increase in fruit yields.

2629-69

ON THE PHOTOPERIODIC REACTION OF CHILOCORUS RENIPUSTULATUS SCRIBA (COLEOPTERA, COCCINELLIDAE).

G A Pantyukhov

Entomol Rev 47(1,JAN-MAR):26-29 REF

Mar 1968 421 R322AE

Coccinellidae, Insect diapause, Insect physiology, Photoperiodism, Temperature.

THE DEVELOPMENT OF RESEARCH ON IN-SECT SECRETIONS. (IT) M Payan

Accad Naz Ital Entomol Atti 8:228-242 REF 1960 420 AC2

Glands (insects), Insect biology, Insect protective devices, Research, Secretion, Toxicity. French summary.

2631-69

AN EXPLANATION OF THE OSCILLATORY FREE-RUNS IN CIRCADIAN RHYTHMS.

T Paylidis

Amer Natur 103(929 JAN-FEB):31-42 REF 28 Feb 1969 470 AM36

Diurnal rhythm, Drosophila pseudoobscura, Frequency distribution, Mathematical analysis.

An effort is made to explain the fluctuations in the frequency of circadian oscillations in certain species under conditions of periodically variable illumination. It is hypothesized that if variations in light intensity are only a small fraction of its average value, then the system tends to ignore them and responds to the average according to Schiff's rule. Experimental data and computer simulation support this hypothesis.

A SEROLOGICAL COMPARISON OF PISSODES STROBI AND P. APPROXIMATUS (COLEOPTERA: CURCULIONIDAE).

D J Peckham

Can Entomol 101(1):78-90 REF

Jan 1968 421 C16

Antigens, Curculionidae, Immunochemistry, Insect morphology, Insect rearing, Pissodes approximatus, Pissodes strobi, Serological tests.

NEUROLEPTIC SUBSTANCES AND INSECT BEHAVIOR-- VI. THE INFLUENCE OF RESER-PINE ON THE BODY WEIGHT OF TRIBOLIUM CONFUSUM. (FR)

J M Perron G W Corrivault L Huot Compar Biochem Physiol 28(1):233-238 REF Jan 1969 444.8 C73

Drug resistance, Insect physiology, Reserpine, Tribolium confusum.

2634-69

THE MECHANISMS BY WHICH BLASTOPHAGUS PINIPERDA L. (COL., SCOLYTIDAE) REACTS TO THE ODOUR OF AN ATTRACTANT FRACTION ISOLATED FROM PINE PHLOEM.

V Perttunen E Kangas H Oksanen Snomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 34(4):205-222 REF 1968 421 SU7

Attractants, Blastophagus piniperda, Insect behavior, Olfactory response, Phloem, Pinus, Plant extracts.

PRELIMINARY RESULTS OF THE USE OF TWO EXPERIMENTAL INSECTICIDES AGAINST SOIL INSECTS AND LEPTINOTAR-SA DECEMLINEATA. (IT)

G Perugia P Napoli A Gallizia Giornate Fitopatol 321-331

26 Mar 1967 SB599.G5

Bromophos, Chemical control (insects), Chloro-1-(2,4-dichlorophenyl) vinyl diethyl phosphate, 2-, Elateridae, Leptinotarsa decemlineata, Melolontha melolontha.

2636-69

FAUNISTIC-ECOLOGICAL REVIEW OF SYNANTIIROPIC DIPTERA IN THE SOUTH OF THE MARITIME TERRITORY.

B R Petrova

Entomol Rev 47(1,JAN-MAR):54-58 REF

Mar 1969 421 R322AE

Catalogs, Diptera, Insect ecology, Insect geography, Insect vectors.

2637-69

LABORATORY STUDIES ON THE LOCOMOTOR ACTIVITY OF CORYPHOSIMA STENOPTERA AND OTHER WEST AFRICAN ACRIDIDAE (INSECTA: ORTHOPTERA).

J Zool 155(3):395-400 REF

Jul 1968 410.9 L84P

Acrididae, Insect behavior, Insect physiology, Locomotion.

OF HORMONAL CONTROL OF OVARIAN DEVELOPMENT IN A HETEROGONAL GALL MITE. (GE)

K Pohlhammer

Naturwissenschaften 56(1):39

Jan 1969 474 N213

Development, Heteropeza pygmaea, Insect hormones, Ovarics, Reproductive organs.

DEVELOPMENT OF THE BEAK MUSCULATURE AND SCLERITES IN HETEROPTERA.

L V Puchrova

Entomol Rev 47(1,JAN-MAR):30-34 REF

Mar 1968 421 R322AE

Heteroptera, Insect evolution, Insect morphology, Metamorphosis, Mouth parts, Muscles.

LABORATORY PROPAGATION OF THE PARASITE CHRYSOCHARIS LARICINELLAE (HYMENOPTERA: EULOPHIDAE) AND NOTES INTERACTION WITH ITS HOST, COLEOPHORA LARICELLA.

F W Quednau

Can Entomol 101(1):100-106

Jan 1969 421 C16

Chrysocharis laricinellae, Coleophora laricella, Eulophidae, Insect pests, Insect rearing, Laboratory animals, Larix laricina, Larvae, Parasites. French

2641-69

EVOLUTION OF THE FUNCTION OF THE OVIPOSITOR IN RELATION TO THE ORIGIN OF PARASITISM IN HYMENOPTERA.

A P Rasnitsyn

Entomol Rev 47(1,JAN-MAR):35-40 REF

Mar 1968 421 R322AE

Hymenoptera, Insect evolution, Insect morphology, Paleoentomology, Parasitism.

EXPERIMENTAL ANALYSIS OF PHENOLOGY OF THE EUROPEAN RED MITE PANONYCHUS ULMI KOCH (ACARINA, TETRANYCHIDAE). (RUS)

A P Rasumova

Zool Zhur 48(2):212-217

Feb 1969 410 R92

Diurnal rhythm, Insect ecology, Panonychus ulmi, Temperature. English abstract

2643-69

THE USE OF A CAPILLARY-TUBE TECHNIQUE FOR ARTIFICALLY FEEDING ARGAS REFLEXUS REFLEXUS TICKS.

U Rau C Hannoun

World Health Organ Bull 39(2):332-333

1968 449.9 W892B

Arboviruses, Argas persicus, Argas reflexus, Blood, Chickens, Feeding, Pigeons.

PRELIMINARY STUDY ON THE EFFECT OF DIFFERENT DOSES OF NITROGEN ON THE INCIDENCE OF MAJOR PESTS OF MUSTARD.

R R Rawat U S Misra A V Thakar S V Dhamdhere

Madras Agr J 55(8):363-366 Aug 1968 22 M262

Brassica, Dosage, Insect population, Lipaphis erysimi, Nitrogen, Phytomyza atricornis, Plant pest resistance, Urea.

CHANGES IN THE METABOLISM OF NUCLE-IC ACIDS IN THE OVARIES OF THE HOUSE FLY, MUSCA DOMESTICA, AFTER APPLICA-TION OF CHEMOSTERILANTS.

B Rezabova

Acta Ent Bohemoslov 65(5):331-340 REF

20 Sep 1968 420 C33

Biological control (insects), Biosynthesis, Chemical control (insects), Chemosterilants, Deoxyribonucleic acid, Insect anatomy, Insect metabolism, Musca domestica, Neoplasms, Nucleic acids, Ovaries, Ribonucleic acid. Czech summary

OBSERVATIONS ON RHOPALOSIPHUM PADI AND R. FITCHII (HOMOPTERA: APHIDIDAE) IN MANITOBA.

A G Robinson Y Chen

Can Entomol 101(1):110-112

Jan 1969 421 C16

Aphididae, Barley, Capsella bursa-pastoris, Chromosomes, Insect behavior, Insect ecology, In-sect identification, Insect morphology, Oats, Poa pratensis, Poa trivialis, Rhopalosiphum fitchii, Rhopalosiphum padi, Wheat.

2647-69

ACETYLCHOLINESTERASE INSENSITIVITY
IN THE BIARRA STRAIN OF THE CATTLE
TICK BOOPHILUS MICROPLUS, AS A CAUSE
OF RESISTANCE TO ORGANOPHOSPHORUS AND CARBAMATE ACARICIDES.

W J Roulston H J Schnitzerling C A Schuntner Australian J Biol Sci 21(4):759-767 REF

Aug 1968 442.8 AU72

Acetylcholinesterases, Boophilus microplus, Carbamates, Enzymes, Insect metabolism, Organophosphorus compounds.

IN VIVO ACTION OF EXTRACTS OF THE CORPORA CARDIACA ON THE CARDIAC RHYTHM OF LOCUSTA MIGRATORIA L. (FR.) J P Roussel M Cazal

Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):581-583

20 Jan 1969 505 P21

Corpora cardiaca, Dorsal vessel, Insect physiology, Locusta migratoria.

EXPERIENCES WITH THE HOUSE FLY, STERILIZED BY X RAYS. (1T)

G Sacca

Accod Noz Ital Entomol Atti 8:91-98 REF 1960 420 AC2

Biological control (insects), Dosage, Insect breeding, Irradiation, Musca domestica, Sterilization, Xrays. English summary.

INSECT OLFACTION: DECIPHERING SYSTEM FOR CHEMICAL MESSAGES.

D Schneider

Science 163(3871):1031-1037 REF 07 Mar 1969 470 SC12

Cells, Chemicals, Chemoreceptors, Cuticle, Insect anatomy, Molecules, Olfactometers, Smell, Stimulants.

2651-69

VISUAL FORM DISCRIMINATION OF THE HONEY BEE WITHIN THE RANGE OF 6- AND 4-POINTED STARS. (GE)

B Schnetter

Z Vergleichende Physiol 59(1):90-109 REF 1968 444.8 Z3

Apis mellifera, Experimental insects, Insect behavior, Insect physiology, Tables (data), Vision. English summary.

2652-69

INVESTIGATIONS CONCERNING THE CON-TROL OF THE APPLE MOTH (CARPOCAPSA POMONELLA (L.)) WITH THE HELP OF TRICHOGRAMMA EMBRYOPHAGUM (HARTIG), (ABSTRACT). (GE)

F Schutte J M Franz

Entomophaga 7(3):271-272

1962 421 EN835

Anagasta kuchniella, Biological control (insects), Carpocapsa pomonella, Dosage, Insect eggs, Parasitism, Sitotroga cerealella, Trichogramma embryophagum. Report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

2653-69

MIMICRY OF HYMENOPTERA BY BEETLES WITH UNCONVENTIONAL FLIGHT.

R E Silberglied T Eisner Science 163(3866):486-488

31 Jan 1969 470 SCI2

Colcoptera, Hymenoptera, Insect behavior, Insect flight, Insect identification, Mimicry.

MOSQUITO STUDIES IN NORTHERN WISCONSIN. II. LIGHT TRAPPING STUDIES. R E Siverly G R DeFoliart

Mosquito News 28(2):162-167 MAP

Jun 1968 421 M85

Aedes, Anopheles, Culex, Culiseta, Demography, Insect ecology, Insect population density, Light traps, Mansonia perturbans, Seasonal variation.

The relative abundance and seasonal succession of adult mosquito populations of northern Wisconsin are described on the basis of 21,790 specimens representing 26 species collected by means of the light trap method.

2655-69

SENSE ORGANS ON THE ANTENNA OF A PARASITIC WASP, NASONIA VITRIPENNIS (HYMENOPTERA, PTEROMALIDAE).

E H Slifer

Biol Bull 136(2):253-263

Apr 1969 442.8 B52

Antennae, Chemoreceptors, Insect morphology, Insect physiology, Nasonia vitripennis.

2656-69

OVIPOSITION, DEVELOPMENT OF EGGS, AND CHROMOSOME COMPLEMENT OF EGGS OF VIRGIN FEMALES OF THE GRASSHOPPER MELANOPLUS SANGUINIPES. D S Smith

Con Entomol 101(1):23-27 REF

Jan 1969 421 C16

Chromosomes, Experimental insects, Insect genetics, Insect morphology, Mclanoplus sanguinipes, Oviposition, Parthenogenesis.

METHODS FOR THE DETERMINATION OF POPULATION DYNAMICS IN ORCHARDS. (INCLUDING SAMPLING AND COLLECTION). (GE)

H Steiner

Entomophaga 7(3):207-214

1962 421 EN835

Insect collecting equipment, Insect populations, Methodology, Orchards, Pesticides, Tetranychidae, English summary, report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

ABSOLUTE CONFIGURATION OF IN-OKOSTERONE, AN INSECT-MOULTING SUB-STANCE FROM ACHYRANTHES FAURIEI.

T Takemoto Y Hikino S Arihara H Hikino Tetrohedron Lett (20):2475-2478 REF

Mar 1968 385 T29

Achyranthes fauriei, Hormones, Molting (insects), Plant extracts, Stereochemistry, Steroids.

ISOLATION OF NEW POLYISOPRENYL KETONE FROM SILKWORM FECES.

M Toyoda H Fukawa T Shimizu Tetrahedron Lett (35):3837-3840

Jul 1968 385 T29

Biochemistry, Bombiprenone, Bombyx Feecs, Isoprenoids, Ketones, Molecular distillation, Morus

#### 2660-69

THE IMMIGRATION OF PIERIS BRASSICAE L. (LEP., PIERIDAE) INTO FINLAND IN 1966, WITH A GENERAL DISCUSSION ON INSECT MIGRATION.

K Vepsalainen

Suomen Hyonteistieteellinen Aikakauskir Ann Entornol Fenn 34(4):223-243 MAP REF 1968 421 SU7

Inseet migration, Pieris brassicae, Weather.

#### 2661-69

A NEW ACTIVE ACARICIDE SUBSTANCE. (IT

L Vicini

Giornate Fitopatol 411-414

26 Mar 1967 SB599.G5

Aearicides, Butylphenoxy) cyclohexyl 2-propynyl sulfite, 2-(p-tert-, Chemical control (insects), Panonychus ulmi, Tetranychus urticae.

MORPHOLOGY AND BIOLOGY OF CULEX PIPIENS L. (DIPTERA, CULICIDAE) IN UZ-BEKISTAN.

Ye B Vinogradova R B Fomenko Entomol Rev 47(1,JAN-MAR):1-4 REF

Mar 1968 421 R322AE

Culex pipiens, Demography, Insect biology, Insect morphology, Insect rearing, Ovaries, Oviposition.

#### 2663-69

THE INFLUENCE OF SPRAY CHEMICALS ON PREDATORY- AND PHYTOPHAGOUS MITES ON APPLE TREES IN LABORATORY- AND FIELD TRIALS IN THE NETHERLANDS.

M van de Vrie

Entomophaga 7(3):243-250

1962 421 EN835

Apples, Chemical control (insects), Mites, Phytophagous mites, Predaceous insects, Spraying. German summary. report from First Colloquium on Integrated Control in Orehards, Sept. 5-9, 1961, Wageningen, Netherlands.

#### 2664-69

BEEKEEPING METHODS IN NORTH AMER-ICA.

G M Walton

New Zeal J Agr 118(2):44-47

Feb 1969 23 N48J

Apieulture, Crop yields, Methodology, Pesticide residucs, Pollen.

#### 2665-69

RESPONSES OF APHIDS TO PRESSURE AP-RESPONSES OF APHIOS TO PRESSURE APPLIED TO LIQUID DIET BEHIND PARAFILM MEMBRANE. LONGEVITY AND LARVIPOSITION OF MYZUS PERSICAE (SULZ.) AND BREVICORYNE BRASSICAE (L.) (HOMOPERA: APHIDIDAE) FEEDING ON SUCROSE AND SINIGRIN SOLUTIONS.

C H Wearing

New Zealand J Sci 11(1):105-121 REF

Mar 1968 514 N482

Barometrie pressure, Brevicoryne brassicae, Diet, Feeding, Larvae, Longevity, Myzus persicae, Reproduction, Sinigrin, Sucrose.

LYSOZYME RETENTION BY COCKROACH PERIPLANETA AMERICANA L.

DRA Wharton

Science 163(3863):183-184

10 Jan 1969 470 SC12

Blattidae, Blood, Muramidase, Periplaneta amerieana, Toxins.

#### 2667-69

VARIATION AND DISTRIBUTION OF THE IN-HALOCORYZA TERTIDAL BEETLE

ARENARIA (DARLINGTON) IN MEXICO AND THE UNITED STATES (COLEOPTERA: UNITED CARABIDAE).

D R Whitehead

N Y Entomol Soc J 77(1):36-39

Mar 1969 420 N48J

Carabidae, Habitats, Inseet geography, Inseet morphology, Littoral insects.

#### 2668-69

LABORATORY INVESTIGATIONS ON THE EF-FECT OF INSECTICIDES ON THE LARVAE AND ADULTS OF COCCINELLA SEPTEM-PUNCTATA L. (COL., COCCINELLIDAE).

S K Wiaekowski B Nowaeka

Pol Pismo Entomol 38(2):441-452

1968 421 P76

Chemical control (inseets), Coeeinella septempunctata, Coecinellidae, Experimental insects, Insecticide residues, Insecticides, Insects, Larvae, Plant protection, Statistical analysis, Toxicity. Polish summary. 12 insecticides were tested.

#### 2669-69

CONCERNING THE POSSIBILITIES OF FORECASTING, SUPERVISING THE INSECT OUTBREAK AND ON TOLERANCE LIMITS IN THE INTEGRATED PEST CONTROL IN FRUIT CULTURES. (GE)

T Wildbolz

Entoinophaga 7(3):273-283 REF

1962 421 EN835

Fruit culture, Insect outbreaks, Insect populations, Integrated control (pests), Mites, Tolerances. English summary, report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

#### 2670-69

SOME CONCLUDING REMARKS.

J de Wilde

Entomophaga 7(3):285-288

1962 421 EN835

Bacillus thuringiensis, Fungicides, Insect populations, Insecticides, Integrated control (pests), Parasitism, Plant pest control, Trichogramma. Concluding remarks on First Colloquium on Integrated Control in Orehards, Sept. 5-9, 1961, Wageningen, Netherlands.

#### 2671-69

SCIENTIFIC RESULTS OF THE POLISH HINDU-KUSH EXPEDITION 1966, PART 1. THE MIGRATION OF THE PAINTED LADY, PYRAMEIS (VANESSA) CARDUI L., IN THE HIGH HINDU-KUSH.

J Woitusiak

Folia Biol (warsaw) 16(4):329-334 MAP

1968 442.8 F71

Insect behavior, Insect migration, Vanessa eardui.

REPRODUCTIVE ISOLATION BETWEEN TWO REPRODUCTIVE ISOLATION BETWEEN TWO
CLOSELY RELATED SPECIES OF THE
QUEENSLAND FRUIT FLY, DACUS TRYONI
(FROGG.) AND D. NEOHUMERALIS HARDY
(DIPTERA: TEPHRITIDAE). I. VARIATION IN
HUMERAL CALLUS PATTERN AND THE OCCURRENCE OF INTERMEDIATE COLOUR
FORMS IN THE WILD. FORMS IN THE WILD.

H Wolda

Australian J Zool 15(3):501-513 REF

May 1967 410 AU73

Dacus neohumeralis, Dacus tryoni, Demography, Insect geography, Insect morphology, Insect mutation, Insect reproduction.

GROSS BIOENERGETICS OF BLATTELLA GERMANICA.

D J Woodland B K Hall J Calder Physiol Zool 41(4):424-431 REF

Oet 1968 410 P56

Blattella germanica, Inscet physiology, Methodology, Statistical analysis.

In analyzing the bioenergetics of Blattella germanica, the equation, Ingestion minus Excretia equals Respiration plus Growth was used. The effieieney of assimilation was investigated, and all the factors were eompared among different age groups and sexes.

OBSERVATIONS ON THE FLUORESCENCE AND FUNCTION OF SPIDERS' EYES.

M R Young F Wanless

J Zool 151(1):1-16 REF

Jan 1967 410.9 L84P

Eyes, Fluoreseenee, Fluoreseenee microscopy, Insect physiology, Phototropism, Spiders.

#### **GENETICS**

#### 2675-69

CHROMOSOME ANALYSES OF QUANTITA-TIVE CHARACTERS IN DROSOPHILA MELANOGASTER.

A A Dewees

Diss Abstr Sect B 29(3)886B

Sep 1968 Z5055.U49D53

Chromosomes, Drosophila melanogaster, Heredity, Insect eggs, Insect genetics, Insect morphology, Quantitative analysis.

#### 2676-69

ON THE RESISTIBILITY OF DROSOPHILA TO SODIUM CHLORIDE. II. DIFFERENCES IN THE RESISTIBILITY AT DIFFERENT DEVELOPMENTAL STAGES.

Y Miyoshi K Nakamura

Jap J Genet 43(5):365-376 REF

Oct 1968 442.9 J27

Drosophila melanogaster, Insect genetics, Insect morphology, Insecticide resistant insects, Larvae, Sodium chloride.

INFLUENCE OF MEDIUM AND STOCK ON THE ROLE OF NATURAL IRRADIATION ON DROSOPHILA MELANOGASTER. (FR)

H Planel J-p Soleilhavoup M-c Giess Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):584-587

20 Jan 1969 505 P21

Demography, Drosophila melanogaster, Inscet breeding, Insect genetics, Irradiation.

INVERSIONAL POLYMORPHISM IN BOOPHTORA ERYTHROCEPHALA (SIMU-LIIDAE, DIPTERA). (RUS)

G G Polianskaya R I Tzapygina Genetika 4(5):70-79 REF

1968 QH431.A1G4

Chromosomes, Diptera, Insect genetics, Larvae, Polymorphism. English summary.

NON-RANDOM ASSORTMENT OF CHROMOSOME PAIRS AND MEIOTIC DRIVE IN DROSOPHILA MELANOGASTER.

R K Sakai

Diss Abstr Sect B 29(3):890B

Sep 1968 Z5055.U49D53

Chromosomes, Drosophila melanogaster, Insect geneties, Meiosis.

ON THE PROBLEM OF HETEROZYGOSITY WITH RESPECT TO PUFFS AND TO THE STRUCTURE OF SEPARATE BANDS IN THE GIANT CHROMOSOMES OF TWO SPECIES OF BLACK-FLIES (SIMULIIDAE, DIPTERA). (RUS

E S Shcherbakov

Genetika 4(5):60-69 REF

1968 OH431.A1G4

Chromatin, Chromosomes, Diptera, Insect geneties, Odagmia ornata. English summary.

2681-69

STUDIES ON THE SCUTELLAR BRISTLES OF DROSOPHILA MELANOGASTER. I. BASIC VARIABILITY, SOME TEMPERATURE AND CULTURE EFFECTS, AND RESPONSES TO SHORT-TERM SELECTION IN THE OREGON-

B L Sheldon

Australian J Biol Sci 21(4):721-740 REF

Aug 1968 442.8 AU72

Drosophila melanogaster, Insect breeding, Insect genetics, Insect morphology, Temperature.

COMPARATIVE ANALYSIS OF SPONTANE-OUS ANEUPLOIDY IN MALES AND FEMALES OF DROSOPIIILA. (RUS)

K V Vatti M M Tikhomirova

Genetika (5):105-110 REF

1967 QH431.A1G4

Chromosomes, Drosophila, Insect genetics, Insect rearing, Meiosis, Oogenesis, Polyploidy, Sex determination, Spermatogenesis. English summary

A SEX-RATIO ABERRATION IN DROSOPHILA MELANOGASTER (MEIGEN).

J E Watson

Diss Abstr Sect B 29(3):892B

Sep 1968 Z5055.U49D53

Chromosomes, Drosophila melanogaster, Insect abnormalities, Insect morphology, Reproduction,

2684-69

REPRODUCTIVE ISOLATION BETWEEN TWO CLOSELY RELATED SPECIES OF THE QUEENSLAND FRUIT FLY, DACUS TRYONI (FROGG.) AND D. NEOHUMERALIS HARDY (DIL'TERA: TEPHRITIDAE). II. GENETIC VARIATION IN HUMERAL CALLUS PATTERN IN EACH SPECIES AS COMPARED WITH LABORATORY-BRED HYBRIDS.

H Wolda

Australian J Zool 15(3):515-539

May 1967 410 AU73

Dacus neohumeralis, Dacus tryoni, Hybrids, Insect color, Insect genetics, Insect rearing, Insect reproduction.

#### MEDICAL ENTOMOLOGY

2685-69

ISOLATION OF MYCOPLASMAS.

Nature 220(5168):649

16 Nov 1968 472 N21

Diagnosis, Epidemiology, Human diseases, Mycoplasma, Mycoplasmosis. Report of International Symposium on Mycoplasma Diseases of Man, East Germany on Oct. 2-5.

A REFINEMENT IN AERIAL APPLICATIONS OF PARIS GREEN GRANULES.

T O Fultz F Harris

Mosquito News 28(3):323-326

Scp 1968 421 M85

Acdes sollicitans, Acrial insect control, Aircraft, Chemical control (insects), Insect control, Methodology, Organic compounds.

The author discusses the techniques used in the aerial application of paris green granules in Gcorgia for mosquito control.

A FEASIBILITY STUDY ON THE UTILIZATION OF MONOMOLECULAR FILMS FOR MOSQUITO ABATEMENT.

G A Lorenzen W W Meinke

Mosquito News 28(2):230-232

Jun 1968 421 M85

Alcohols, Chemical control (insects), Culex quinquefasciatus, Insect control, Interfacial tension, Larvicides.

INSECTICIDE SUSCEPTIBILITY STUDIES IN INDIAN STRAINS OF AEDES AEGYPTI L.. B V R Madhukar M K K Pillai

Mosquito News 28(2):222-225 MAP REF Jun 1968 421 M85

Acdes acgypti, Chemical control (insects), Chlorinated hydrocarbons, Insecticide resistant in-

2689-69

RESEARCH ON A TYPE OF DAM SPILLWAY UNFAVORABLE TO THE PROLIFERATION OF SIMULIUM DAMNOSUM (DIPTERA) SIMULIIDAE). (FR )

G Quelennee E Simonkovich M Ovazza World Health Organ Bull 38(6):943-956

1968 449.9 W892B

Dams, Human diseases, Insect vectors, Onchocerca volvulus, Onchocerciasis, Public health, Simuliidac, Simulium damnosum. English summary.

2690-69

STUDIES ON YELLOW FEVER IN ETHIOPIA. 6, EPIDEMIOLOGICAL STUDY. (FR)

C Serie L Andral A Poirier A Lindrec P Neri World Health Organ Bull 38(6):879-884 1968 449.9 W892B

Aedes africanus, Epidemiology, Human diseases, Insect vectors, Mortality, Ycllow fever. English summary

APHOLATE AND GAMMA IRRADIATION COMPARED AS STERILANTS FOR CULEX PIPIENS QUINQUEFASCIATUS SAY (DIPTERA: CULICIDAE).

B J Smittle G A Mount M Das N Rajapaksa Mosquito News 28(2):201-204 REF

Jun 1968 421 M85

Apholate, Biological control (insects), Chemosterilants, Culex pipiens quinquefasciatus, Gamma rays, Irradiation, Sterilization.

2692-69

ECOLOGICAL CONSIDERATIONS IN SCRUB TYPHUS. I. EMERGING CONCEPTS. 2. VEC-TOR SPECIES. 3. METHODS OF AREA CON-TROL.

R Traub C L Wisseman

World Health Organ Bull 39(2):209-237 REF 1968 449.9 W892B

Aldrin, Birds, Carbamates, Chemical control (insects), Dieldrin, Ecology, Fenthion, Human diseases, Insect vcctors, Isopropoxyphenyl N-mcthylcarbamate, 2-, Leptotrombidium, Lindane, Mammals, Organophosphorus compounds, Rodents, Scrub typhus, Trombiculidae, Zoogcography. French summary

# CROP PROTECTION

2693-69

INTEGRATED CONTROL OF PESTS IN ORCHARDS.

H J de Fluiter

Entotnophaga 7(3):199-206

1962 421 EN835

Bacillus thuringiensis, Biological control (insects), Chemical control (insects), Insecticides, Integrated control (pests), Orchards, Spraying. French summary, report from First Colloquium on Inegrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

THE POSSIBILITY OF THE USE OF SOME BIOLOGICAL ANALYTICAL TECHNIQUES FOR THE CONTROL OF THE SAFETY PERIODS OF PESTICIDES. (IT)

S Foschi A Cesari E Olmo B Guiati R Stanzani A

Giornate Fitopatol 133-139 REF 26 Mar 1967 SB599.G5

Biology, Crops, Drosophila melanogaster, Harvesting date, Pesticide application, Pesticides, Plant protection, Time, Tolerances. Tests were con-ducted with 9 pesticides.

VARIATION IN THE SMUT FUNGL

C S Holton J A Hoffman R Duran

Annu Rev Phytopathol 6:213-242 REF

1968 464.8 AN72

Fungi, Plant morphology, Plant physiology, Smut.

THE CURRENT IMPORTANCE OF PLANT PROTECTION. (IT)

L Lintas G Goidanich M M Principi S Toschi Giornate Fitopatol 11-19

26 Mar 1967 SB599.G5

Acaricides, Chemical control (pests), Chemosterilants, Fungicides, Insecticides, Legislation, Ne-matocides, Plant diseases, Plant protection, Tolcrances

2697-69

MOISTURE LOSS AFTER APPLICATION OF SOIL FUMIGANTS.

C C Orr O H Newton

Plant Dis Rep 53(2):163-164

Feb 1969 1.9 P69P

Equipment, Pesticide application, Seedbeds, Soil fumigation, Soil moisture, Soil scrics.

POLLINATION OF SOME TUNDRA PLANTS WITH MINIATURE FLOWERS ON NIWOT RIDGE IN BOULDER COUNTY, COLORADO.

B W Peterson

Diss Abstr Sect B 29(3):882B

Sep 1968 Z5055.U49D53

Fertilization (plants), Flowers, Insect pollinators, Pollination. Seven tundra species discussed.

THE GROWTH PROCESS IN FUNGI.

N F Robertson Annu Rev Phytopathol 6:115-136 REF

1968 464.8 AN72

Aging, Fungi, Growth factors, Plant physiology, Plant reproduction, Plant water relations

BIRDS AND PLANT PROTECTION-A REPLY.

H Schonbeck

Pflanzenarzt 20(8):84-85

01 Aug 1967 464.9 P482

Birds, Legislation, Pesticide residues, Plant protection, Wildlife pests.

INVESTIGATION CONCERNING THE NECTAR AND HONEY PRODUCTION OF THE QUINCE (CYDONIA VULGARIS PERS.). (BU)

T Simidchiev

Vissh Selskostopanski Inst Vasil Kolarov Nauch Tr 16(2):241-253 REF

1967 106.3 P72

Bees, Fruit culture, Honey, Nectar, Plant physiology, Quinces. German and Russian summaries.

FACTS AND FICTION CONCERNING THE FOREST AND SILVICULTURE. (FR

H Siriez

Phytoma 20(199):27-36

Jun 1968 464.8 P563

Balance of nature, Biological control (insects), Chemical control (insects), Forests, Silviculture. Review of Les Français et leur foret by R. Fevrier 126p., Editions Hubert Baille, Paris, France 1968.

# DISEASES

THE INFLUENCE OF LATENT APPLE VIRUSES ON THE GROWTH OF VARIOUS OR-NAMENTAL APPLES. (GE)

F Afscharpour L Kunze

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):157-161

Feb 1967 410.9 G31M

Apples, Crop varieties, Latent virus, Ornamental trees, Plant grafting, Plant physiology, Rootstocks, Virus diseases (plants). English abstract

2704-69

EFFECT OF MALEIC HYDRAZIDE ON WHEAT AND BARLEY AGAINST DIFFERENT RUSTS.

S T Ahmad S Singh Indian J Agr Sci 38(4):620-622

Aug 1968 22 AG831

Barley, Fungus diseases (plants), Maleic hydrazide, Plant disease resistance, Puccinia, Rust, Wheat.

2705-69

GLOEOSPORIUM.

Anonymous

Rubber Res Inst Malaya Plant Bull (97):110-113 Jul 1968 78:9 R825

Chemical control (plant diseases), Dusting, Fertilizers, Fungicides, Fungus diseases (plants), Gloeosporium, Humidity, Oidium, Symptomatology, Weather.

2706-69

A NEW PROMISING SYSTEMIC FUNGICIDE AGAINST CERCOSPORA. (IT

C Antonelli A Ponti-Sgarbi Giornate Fitopatol 179-183

26 Mar 1967 SB599.G5

Cercospora, Chemical control (plant diseases), Fentin acetate, Fungus diseases (plants), Sugar beets, Testing, Thiazolyl)-benzimidizole, 2-(4-.

2707-69

FOMES ANNOSUS AND CHEMICAL STUMP TREATMENT IN VIRGINIA--A THREE-YEAR STUDY.

J D Artman D H Frazier C L Morris Plant Dis Rep 53(2):108-110

Feb 1969 1.9 P69P

Borax, Chemical control (plant diseases), Fomes annosus, Fungus diseases (plants), Pinus taeda, Urea.

2708-69

MECHANISMS OF BIOLOGICAL CONTROL OF SOIL-BORNE PATHOGENS.

R Baker

Annu Rev Phytopathol 6:263-294 REF 1968 464.8 AN72

Antibiosis, Biological control (plant diseases), Lysis, Soil-borne plant diseases.

2709-69

CONCENTRATION OF POTATO-M-VIRUS IN POTATOES AND TOMATOES. (GE

R Bartels

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):118-124

Feb 1967 410.9 G31M

Plant morphology, Potatoes, Serological tests, Tomatoes, Virus diseases (plants), Virus m, Virus s. English abstract.

2710-69

PROBLEMS IN PLANT VIRUS INVESTIGATIONS. (GE)

R Bereks

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):97-108 REF

Feb 1967 410.9 G31M

Electron microscopy, Plant diseases, Research, Virus diseases (plants). English abstract

2711-69

EPIDEMIOLOGY AND CONTROL OF BROWN ROT OF SOUR CHERRIES INCITED BY MONILINIA FRUCTICOLA (WINT.) HONEY.

D A Biris

Diss Abstr Sect B 29(3):833B-334B

Sep 1968 Z5055.U49D53

Brown rot, Chemical control (plant diseases), Epidemiology, Fruit rot, Fungus diseases (plants), Monilinia frueticola, Sour cherries. 2712-69

EXPERIMENTAL TESTS WITH THIABENDAZOLE AGAINST CERCOSPORA BETICOLA SACC. (IT )

G C Bongiovanni

Giornate Fitopatol 185-189

26 Mar 1967 SB599.G5

Cercospora betieola, Chemical control (plant diseases), Fentin acetate, Fungus diseases (plants), Testing, Thiazolyl)-benzimidizole, 2-(4-.

2713-69

WHERE DOES POTATO BLIGHT COME FROM

A E W Boyd

Scot Agr 46(2,SPRING):78-82

1967 10 SCO82SO

Blight, Plant disease control, Plant disease transmission, Potatoes, Seasonal variation.

2714-69

ELECTRON MICROSCOPY OF PLANT VIRUSES. BIBLIOGRAPHY 1935-1965.

J Brandes

Berlin Biol Bundesanst Land-forstwirtsch Mitt (122):1-91

May 1967 410.9 G31M

Bibliography, Electron microscopy, Insect vectors, Methodology, Morphology, Plant hosts, Taxonomy, Virus diseases (plants). Citations also in German

715-69

AERIAL PHOTOGRAPHY FOR THE STUDY OF PLANT DISEASES.

G H Brenehley

Annu Rev Phytopathol 6:1-22 REF

1968 464.8 AN72

Aerial photography, Air-borne plant diseases, Environment, Epidemiology, Plant diseases, Quantitative analysis.

2716-69

THE RECOVERY OF GIBBERELLA ZEAE FROM WHEAT STRAWS.

L W Burgess D M Griffin

Australian J Exp Agr Anim Husb 8(32):364-370 REF

Jun 1968 23 AU792

Fungus diseases (plants), Gibberella zeae, Plant physiology, Soil moisture, Soil temperature, Straw, Wheat.

2717-69

EARLY STAGES OF PATHOGENESIS ENGENDERED BY ERWINIA AMYLOVORA IN APPLE AND PEAR TISSUE.

A Burkowicz

Diss Abstr Sect B 29(3):834B

Sep 1968 Z5055.U49D53

Apples, Bacterial diseases (plants), Erwinia amylovora, Pears, Plant diseases, Plant physiology, Tissues.

2718-69

MULTIVESICULAR BODIES IN SCLEROTINIA FRUCTIGENA AND THEIR POSSIBLE RELATION TO EXTRACELLULAR ENZYME SECRETION.

F D Calonge A H Fielding R T W Byrde J Gen Microbiol 55(2):177-184 REF

Feb 1969 448.3 J823

Cytology, Electron microscopy, Enzymes, Extracellular substances, Histochemistry, Physiology, Selerotinia fruetigena, Secretion, Tissue culture.

2719-69

WESTERN GALL RUST ON JACK PINE NURSERY STOCK IN MANITOBA.

L W Carlson

Plant Dis Rep 53(2):100

Feb 1969 1.9 P69P

Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Nurscries, Peridermium harknessii, Pinus banksiana, Plant galls, Rust. 2720-69

CONTRIBUTIONS CONCERNING THE DEFENSE AGAINST AGROBACTERIUM TU-MEFACIENS. (IT )

B Casarini

Giornate Fitopatol 271-285

26 Mar 1967 SB599.G5

Agrobaeterium tumefaciens, Chemieal control (plant diseases), Fumigants, Oxytetraeyeline, Soil sterilization.

2721-69

A NEW SPECIES OF PESTALOTIA ON THE LEAVES OF PHOENIX RUPICOLA ANDER.

S Chandra R N Tandow

Cur Sci 38(2):47-48 20 Jan 1969 475 SC123

Dates, Fungus diseases (plants), Microscopy, Pestalotia, Plant morphology.

2722-69

STUDIES OF PEANUT STUNT VIRUS ON TRIFOLIUM SPECIES, ESPECIALLY TRIFOLI-UM REPENS L.

D Choopanya

Diss Abstr Sect B 29(3):835B

Sep 1968 Z5055.U49D53

Clover, Epidemiology, Peanuts, Research, Stunt, Virus diseases (plants), White elover.

2723-69

RELATIONS OF DISEASE RESISTANCE MECHANISMS TO PATHOGEN DYNAMICS IN OAT CROWN RUST EPIDEMIOLOGY.

B C Clifford

Diss Abstr Sect B 29(3):835-836B

Sep 1968 Z5055.U49D53

Crown rust, Epidemiology, Fungus diseases (plants), Oats, Plant disease resistance, Plant genetics, Puccinia coronata, Research.

2724-69

VIRUS DISEASES OF LETTUCE.

L J Cock

Great Brit NAAS (nat Agr Adv Serv) Quart Rev (79,SPRING):126-138 REF 1968 241 G796

Catalogs, Chemical control (insects), Disease transmission, Insect vectors, Lettuce, Symptomatology, Virus diseases (plants).

The virus diseases of lettuce in Britain are listed and their symptoms, transmission, and control methods are described.

2725-69

NECROSIS IN LEAVES INDUCED BY VOLATILE MATERIALS PRODUCED IN VITRO BY BACTERIA.

A A Cook R E Stall

Phytopathology 59(2):259-260

Feb 1969 464.8 P56

Bacteria, Bacterial diseases (plants), Bush redpeppers (vegetable), Cabbage, Leaves, Necrosis, Tobacco, Tomatoes, Xanthomonas phaseoli, Xanthomonas vesicatoria. Other bacteria tested:Erwinia earotovora, E. amylovora, Pseudomonas cichorii, P. tabaci, P. fluoreseens.

2726-69

AEROBIOLOGY OF MONILINIA (SCLEROTINIA) LAXA (ADERH. AND RUHL.) HONEY ON STONE FRUITS, PRUNUS SPP., IN CALIFORNIA.

J B Corbin

Diss Abstr Sect B 29(3):836B Sep 1968 Z5055.U49D53

Aprieots, Brown rot, Fungus diseases (plants), Monilinia laxa, Plant diseases, Prunus, Research.

2727-69

DISTRIBUTION OF VERTICILLIUM WILT IN COTTON-GROWING AREAS OF THE UNITED STATES.

J R Cotton J T Presley F Darvish Plant Dis Rep 53(2):116-117 MAP Feb 1969 1.9 P69P

#### CROP PROTECTION

2728-69

Cotton, Epidemiology, Fungus diseases (plants), Verticillium, Wilt.

CYLINDROCLADIUM SCOPARIUM ON AZALEA IN SOUTH FLORIDA.

R S Cox

Plant Dis Rep 53(2):139 Fcb 1969 I.9 P69P

Azalca, Blight, Chemical control (plant diseases), Colletotriehum, Cylindrocladium scoparium, Fungicides, Fungus diseases (plants), Gloeosporium, Glomerella, Spraying, Wilt.

DNA BASE COMPOSITION AND HYBRIDIZA-TION IN THE TAXONOMY OF PHYTOPATHOGENIC BACTERIA.

J De Ley

Annu Rev Phytapathal 6:63-90 REF

1968 464.8 AN72

Agrobaeterium, Bacterial diseascs (plants), Breeding, Corynebacterium, Deoxyribonueleic acid, Erwinia, Pseudomonas, Rhizobium, Tables (data), Taxonomy, Xanthomonas.

A PRELIMINARY STUDY ON THE VARIABILITY OF XANTHOMONAS ORYZAE ON SOME RICE VARIETIES.

S Devadath S Y Padmanabhan

Plant Dis Rep 53(2):145-148 REF

Feb 1969 1.9 P69P

Bacterial diseases (plants), Blight, Breeding, Crop varieties, Plant disease resistance, Rice, Xanthomonas oryzae.

CONTROL OF TOBACCO MOSAIC VIRUS IN TOBACCO.

A D Doyle

Agr Gaz New S Wales 79(2):90-94

Feb 1968 23 N472

Cultural control (plant diseases), Milk, Plant discase control, Plant disease transmission, Sap, Seedbeds, Spraying, Symptomatology, Tobaeco, Tobacco mosaie virus.

ERADICATING CITRUS CANKER FROM NEW ZEALAND.

D W Dye

New Zeal J Agr 118(2):20-21

Feb 1969 23 N48J

Baeterial diseases (plants), Canker, Citrus, Cultural control (plant diseases), Xanthomonas, Zoogcography.

The symptoms of baeterial eitrus canker arc discussed and it is recommended that any tree having the disease be destroyed.

2733-69

INOCULUM PRODUCTION AND INFECTION BY FOLIAGE PATHOGENS.

A H Ellingboe

Annu Rev Phytopathol 6:317-330 REF

1968 464.8 AN72

Fungi, Inoculum, Parasitism, Plant biochemistry, Plant diseases, Quantitative analysis.

STUDIES ON VIRUS DISEASES OF STRAW-BERRIES IN THE WESTERN CAPE
PROVINCE. II. THE LATENT PERIOD OF
MILD YELLOWEDGE AND CRINKLE
VIRUSES IN THE VECTOR CHAETOSIPHON FRAGAEFOLII (CKLL.).

D J Engelbrecht

S Afr J Agr Sci 10(3):575-581

Sep 1967 24 SU3

Chactosiphon fragaefolii, Crinkle, Inseet veetors, Plant disease transmission, Strawberries, Virus discases (plants), Yellow edge.

2735-69

RESISTANCE IN FLORIDA CITRUS TO CER-COSPORA CITRI-GRISEA.

F E Fisher

Plant Dis Rep 53(2):112-114

Feb 1969 1.9 P69P

Cereospora citrigrisea, Citrus, Fungus discases (plants), Plant disease resistance.

PHENOLIC SUBSTANCES AND OXIDASES IN CONNECTION WITH THE RESISTANCE OF BARLEY TO THE POWDERY MILDEW (ERYSIPHE GRAMINIS F. SP. HORDEI MARCHAL). (GE)

Biologia (bratislava) 24(1):54-69 REF

24 Jan 1969 442.8 B5265

Barley, Erysiphe graminis, Fungus diseases (plants), Oxidases, Phenol compounds, Plant biochemistry, Plant disease resistance, Powdery mildew

GENETICS OF PATHOGENICITY PHYTOPHTHORA INFESTANS.

M E Gallegly

Annu Rev Phytopathol 6:375-396 REF

1968 464.8 AN72

Cytology, Fungus diseases (plants), Hereditary diseases, Late blight, Phytophthora infestans, Plant disease resistance, Plant genetics, Potatoes, Tomatoes.

DIPLODIA ZEAE (SCHW.) LEV. AND GIB-BERELLA ZEAE (SCHW.) PETCH. BEHAVIOR AGAINST CALCIUM CYANAMIDE. (IT )

P Gambogi

Agr Ital 68(2,MAR-APR):81-83

1968 16 AG8259

Calcium cyanamide, Corn, Diplodia zeae, Fungicides, Fungus diseases (plants), Gibberella zeae. English summary.

2739-69

TESTS CONCERNING THE CONTROL OF THE WHITE ROT OF GARLIC. (IT

A Garibaldi

Giornate Fitopatol 249-250

26 Mar 1967 SB599.G5

Chemical control (plant diseases), Fungus diseases (plants), Garlic, Sclerotium cepivorum, White rot.

VESICULAR-ARBUSCULAR MYCORRHIZA AND PLANT GROWTH.

J W Gerdemann

Annu Rev Phytapathal 6:397-418 REF

1968 464.8 AN72

Environment, Epidemiology, Fungus diseases (plants), Mycorrhiza, Plant morphology, Plant physiology, Roots.

2741-69

DOWNY MILDEW OF STOCKS.

A L Gertus

Agr Gaz New S Wales 79(3):178-179

Mar 1968 23 N472

Downy mildew, Fungicides, Fungus diseases (plants), Matthiola incana, Peronospora parasitiea, Plant disease transmission, Symptomatology,

Downy mildew of stock (Matthiola ineana) eaused by the fungus Peronospora parasitica. The symptoms, transmission, and ehemical control of this disease are discussed.

A FISSURE OF PHYSIOLOGICAL ORIGIN IN CARNATION PLANTS. (IT

R Gigante

Giornate Fitopatol 611-614

26 Mar 1967 SB599.G5

Dianthus caryophyllus, Humidity, Osmotic pressure, Parenchyma tissue, Plant physiological diseases, Symptomatology. Symptoms can be eases, Symptomatology. Symptoms can be mistaken for those produced by Pseudomonas caryophylli.

A PHYSIOLOGICAL DEFOLIATION OF THE ROSE. (IT)

R Gigante G Bestagno

Giarnate Fitopatol 615-619

26 Mar 1967 SB599.G5

Defoliation, Humidity, Plant physiological diseases, Rosa, Symptomatology, Temperature.

SEROLOGICAL RELATIONSHIPS
PHYSIOLOGIC RACES A-I TO A-8
PHYTOPHTHORA FRAGARIAE. OF

H S Gill D Powell

Phytopathology 59(2):261-262 REF

Feb 1969 464.8 P56

Antigens, Electrophoresis, Fungus diseases (plants), Neurospora crassa, Nutrient solutions (plants), Phytophthora caetorum, Phytophthora fragariac, Serological tests.

2745-69

RHYNCHOSPORIUM LEAF BLOTCH OF BAR-LEV.

J Gilmour

Scot Agr 46(1,WINTER):34-36

1966 10 SCO82SO

Barley, Diagnosis, Fungus diseases (plants), Leaf blotch, Mcrcury compounds, Plant disease control, Plant disease transmission, Rhynchosporium, Seed treatment.

The symptomatology and etiology of rhynchosporium leaf blotch of barley is discussed. Recommended control measures are seed selection and treatment with methyl- organomereury compounds as well as crop rotation and tilling of crop residues.

INTERPRETING PLANT DISEASE DISPERSAL GRADIENTS.

P H Gregory

Annu Rev Phytapathal 6:189-212 REF

1968 464.8 AN72

Fungus diseases (plants), Late blight, Leaf roll, Mathematical analysis, Plant disease transmission, Potatoes, Puccinia polysora, Rhizoctonia, Virus diseases (plants).

SOME PRELIMINARY OBSERVATIONS ON CROWN GALL THERAPY WITH CHEMICALS. H W Guengerieh R N Goodman D F Millikan

Plant Dis Rep 53(2):155-157

Feb 1969 I.9 P69P

Chelating agents, Chemical control (plant diseases), Copper compounds, Crown galls, Cyanoguanidine, Oxytetraeyeline, Peaches, Plant diseases, Seed treatment.

DISEASES OF CORN AND SOYBEANS IN RIO GRANDE DO SUL, BRAZIL IN 1968.

D J Hagedorn J P Crill

Plant Dis Rep 53(2):165-168

Feb 1969 1.9 P69P Bacterial diseases (plants), Blight, Corn, Epidemiology, Plant ecology, Rust, Soybeans.

LATENT VIRUSES IN APPLE VARIETIES AND GRAFTING STOCK. (GE)

G Hamdorf Berlin Biol Bundesaust Land-forstwirtsch Mitt

(121):152-156 Feb 1967 410.9 G31M

Apples, Crop varieties, Latent virus, Plant disease transmission, Plant grafting, Rootstocks, Virus discases (plants). English abstract.

ON THE EFFECT OF FAT EMULSION ON VIRUS TRANSMISSION. (GE)

A Hein

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):109-112

Feb 1967 410.9 G31M

Corn oil, Emulsions, Plant disease transmission, Virueides, Virus diseases (plants), Viruses. English abstract

THE INFLUENCE OF HERBICIDES ON CER-COSPORELLA INFECTION AND LODGING OF WINTER WHEAT. (GE)

R Heitcfuss

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):218-225

Feb 1967 410.9 G31M

Cercosporella herpotrichoides, Chemical control (plant diseases), Fungus diseases (plants), Herbicides, Lodging, Monolinuron, Simazine, Wheat. English abstract.

2752-69

TRENDS IN THE DEVELOPMENT OF PLANT VIROLOGY.

F O Holmes

Annu Rev Phytopathol 6:41-62 REF

1968 464 8 AN72

Crop losses, Plant disease control, Plant disease transmission, Quantitative analysis, Symptomatology, Virology, Virus diseases (plants).

2753-69

LONG-TERM PRESERVATION PATHOGENICITY OF SELECTED STRAINS OF COLLETOTRICHUM, RHIZOCTONIA, AND PHYTOPHTHORA. (ABSTRACT).

S W Hwang A L Anderson G C Papavizas R H Converse

Phytopathology 57(8):816

Aug 1967 464.8 P56

Colletotrichum, Freezing, Fungus diseases (plants), Phytophthora, Rhizoctonia.

INHERITANCE OF RESISTANCE TO BAC-TERIAL BLIGHT OF COTTON. IV. TANZANIA SELECTIONS.

N. L. Innes

J Agr Sci &london & 72(1):41-57 REF

Jan 1969 10 J822

Bacterial blight, Cotton, Plant breeding, Plant disease resistance, Plant genetics.

2755-69

FUNGICIDAL CONTROL OF DISEASE IN COT-TON.

A J Kappelman

Plant Dis Rep 53(2):161-163

Feb 1969 1.9 P69P

Chemical control (plant diseases), Cotton, Environment, Fungicides, Fungus diseases (plants), Mortality, Seed treatment:

2756-69

THE MULTIPLICITY OF BANDS IN THE GEL DIFFUSION PRECIPITIN ANALYSIS OF THE PROTEIN OF TOBACCO MOSAIC VIRUS.

A Kleczkowski

Virology 36(4):700-701

Dcc 1968 448.8 V81

Diffusion, Gels, Mosaic, Precipitin test, Proteins, Tobacco, Virus diseases (plants).

2757-69

CHICKPEA, A NEW HOST OF FUSARIUM SOLANI F. SP. PISI.

J M Kraft

Plant Dis Rep 53(2):110-111

Feb 1969 1.9 P69P

Chickpeas, Fungus diseases (plants), Fusarium solani pisi, Peas, Plant disease resistance, Root rot.

2758-69

PROTEIN-LIPID-POLYSACCHARIDE COM-PLEX FROM THE CULTURE AND MYCELIUM OF THE FUNGUS VERTICILLIUM DAHLIAE KLEB, THE CAUSATIVE AGENT OF VER-TICILLIACEOUS WILT OF COTTON.

K M Malysheva S S Zel'tser

Acod Sci U Ssr Dokl Bot Sci 179(MAR-APR):51-54 REF

1968 511 P444AE

Cotton, Culturc media, Fungus diseases (plants), Lipids, Mycelium, Polysaccharides, Proteins, Ver-ticillium dahliae, Wilt, Translated from Russian.

2759-69

THE INHERITANCE OF RESISTANCE TO STEM AND CROWN RUST IN KYTO OATS.

J W Martens R I H McKenzie G Fleischmann Can J Genet Cytol 10(4):808-812

Dec 1968 443.8 C16

Crop varietics, Crown rust, Fungus diseases (plants), Oats, Plant genetics, Resistance, Stem rust, Temperature.

RESIDUAL EFFECT OF TREATMENT WITH METHYL BROMIDE AGAINST VERTICILLI-UM INFECTION OF TOMATOES IN THE SECOND YEAR OF CULTIVATION. (IT)

A Matta A Garibaldi

Giornate Fitopatol 241-243

26 Mar 1967 SB599.G5

Fumigants, Fungus diseases (plants), Methyl bro-mide, Soil fumigation, Tomatoes, Verticillium

A DAY OF STUDY ON THE PELARGONIUM. (FR)

J Mimaud

Phytoina 20(199)21-23

Jun 1968 464.8 P563

Conferences, Flowers, Fungus diseases (plants), Insect pests, Pelargonium, Plant galls, Seedlings, Virus diseases (plants), Xanthomonas. Report on a conference on Pelargonium held at Paris, France on 24 Feb 1968.

2762-69

APPLE AND PEAR CANKER.

Great Brit Min Agr Fish Food Adv Leafl (100):1-

Apr 1968 10 G79LA

Apples, Bordeaux mixture, Canker, Chemical control (plant diseases), Cultural control (plant diseases), Fungus diseases (plants), Mercury compounds, Nectria galligena, Pears, Plant disease transmission, Plant grafting, Plant injuries, Pruning, Symptomatology

Ine rungal agent, symptoms, transmission and control measures of apple and pear canker arc discussed. Cultural control by pruning diseased wood, scaling tree injuries, burning diseased cuttings and top-grafting and chemical control with mercury compounds and Bordeaux mixture are recommended. The fungal agent, symptoms, transmission and con-

2763-69

CAULIFLOWER MOSAIC.

Great Brit Min Agr Fish Food Adv Leafl (370):1-

Dec 1967 10 G79LA

Brevicoryne brassicae, Cauliflower, Chemical control (insects), Cultural control (plant diseases), Insect vectors, Malathion, Mosaic, Myzus persicae, Organophosphorus compounds, Plant diseasc control, Plant disease transmission, Symptomatology, Virus diseases (plants).

The virus disease, cauliflower mosaic, its symptoms, transmission by aphids, and control are discussed. No cure for the disease is known, only preventive measures such as destruction of crop residues, control of aphid vectors and selective cropping effectively control the disease.

2764-69

RED CLOVER NECROTIC MOSAIC VIRUS, A NEW VIRUS INFECTING RED CLOVER (TRIFOLIUM PRATENSE) IN CZECHOSLOVAKIA.

M Musil

Biologia (brotislova) 24(1):33-43

24 Jan 1969 442.8 B5265

Morphology, Mosaic, Red clover, Virus diseases

2765-69

COURSE OF RED CLOVER MOTTLE VIRUS INFECTION IN SOME HOST PLANTS.

M Musil O Leskova Biologia (bratislova) 24(1):23-31

Jan 1969 442.8 B5265

Host indexing (plants), Mottle, Rcd clover, Virus diseases (plants)

2766-69

CONTROL OF BRANCH WILT DISEASE OF GRAPES.

R M Natour J M Ahmed

Plant Dis Rep 53(2):152-153

Feb 1969 1.9 P69P

Chemical control (plant diseases), Epidemiology, Fungicides, Fungus diseases (plants), Grapes, Hendersonula toruloidea, Mercury compounds, Prun-

2767-60

BARLEY YELLOW DWARF VIRUS.

Agr Gaz New S Wales 79(4):BACK COVER Apr 1968 23 N472

Aphididae, Barley, Discase transmission, Insect vectors, Oats, Symptomatology, Virus discases (plants), Yellow dwarf.

2768-69

HALO BLIGHT OF BEAN (PSEUDOMONAS PHASEOLICOLA).

Agr Gaz New S Wales 79(11):BACK COVER Nov 1968 23 N472

Beans, Cultural control (plant diseases), Halo Pseudomonas phaseolicola, Secd-borne plant diseases.

2769-69

LATE BLIGHT OF POTATO.

Agr Gaz New S Wales 79(2):BACK COVER

Fcb 1968 23 N472

Chemical control (plant diseases), Cultural control (plant diseases), Fungus diseases (plants), Late blight, Phytophthora infestans, Plant disease control, Plant disease transmission, Potatocs.

DOWNY MILDEW OF CEREALS AND GRASSES (PHYTOPHTHORA MACROSPORA). AND Agr Gaz New S Wales 79(5):BACK COVER May 1968 23 N472

Cultural control (plant diseases), Fungus diseases (plants), Grain, Grasses, Phytophthora macrospora.

ANTIBIOTIC SUBSTANCES IN THE POTATO FORMED DURING THE NECROTIC REAC-TION.

O L Ozcretskovskaya N I Vasyukova L V Metlitskii

Acod Sci U Ssr Dokl Bot Sci 178(JAN-FEB):6-8 1968 511 P444AE

Antibiotics, Fusarium solani. Necrosis. Phytophthora infestans, Plant disease resistance, Plant diseases, Potatoes. Translated from Russian.

SPRAY WARNINGS FOR THE CONTROL OF SEASONAL DISEASE OUTBREAKS IN FIELD CROPS UNDER SEMI-ARID CONDITIONS.

J Palti J Rotem

Plont Protect Abs 4:187-188

Sep 1968 241.75 P69

Arid regions, Environment, Epidemiology, Field crops, Plant discases, Spraying. First International Congress of Plant Pathology, London 14-26 July, 1968

2773-69

ABOUT POTATO VIRUS DIAGNOSED IN YUGOSLAVIA. (SE)

M Panjan

Zostito Biljo 18(93/95):25-35 REF

1967 464.8 Z1

Crop losses, Diagnosis, Potatoes, Virus diseases (plants). English summary.

Viruses diagnosed were: Y-virus, A-virus, potato leafroll virus, X, S, M-virus, aucuba virus, stolbur virus, bouguet virus, rattle virus, calico virus.

**DUTCH ELM DISEASE IN IDAHO-1968.** A D Partridge H N Ward

#### CROP PROTECTION

2775-69

Plant Dis Rep 53(2):140-141 MAP

Feb 1969 1.9 P69P

Ceratocystis ulmi, Dieback, Fungus diseases (plants), Ulmus pumila.

2775-69

THE USE OF DISEASE RESISTANCE IN THE GLASSHOUSE TOMATO.

J Pelham J W M Smith H C Harries

Great Brit NAAS (nat Agr Adv Serv) Quart Rev (81 AUTUMN):19-27 REF

1968 241 G796

Brown root rot, Cladosporium, Fusarium, Plant breeding, Plant disease resistance, Tomatoes, Verticillium.

Breeding for resistant varieties of tomatoes is discussed with reference to the diseases of Verticillium, Fusarium, brown root rot, Cladosporium and mosaic viruses.

2776-69

APPLICATION OF ARK'S METHOD MODIFIED IN ISOLATION OF AGROBACTERIUM RHIZOGENES IN ASSOCIATION WITH AGROBACTERIUM TUMEFACIENS IN GALLS FROM ROSA SP. AND INFECTED SOILS. (POR

A L G Percira A G Zagatto

Sao Paulo Inst Biol Arq 35(4,OCT-DEC):133-139 Dec 1968 442.9 SA6

Agrobacterium rhizogenes, Agrobacterium tumefaciens, Bacterial diseases (plants), Methodology, Plant galls, Rosa, Soil bacteria. English abstract

2777-69

STATUS OF AMERICAN STEM RUSTS OF PINE.

R S Peterson F F Jewell

Annu Rev Phytopathol 6:23-40 REF

1968 464.8 AN72

Epidemiology, Fungus diseases (plants), Pinus, Plant disease control, Plant injuries, Stem rust.

VULGARIS L.) PLANTS OF HETERODERA SCHACHTII SCHMIDT 1871, ALONE, AND IN COMBINATION WITH SOLANI KUHN 1858.

A G Polychronopoulos Diss Abstr Sect B 29(3):838B

Scp 1968 Z5055.U49D53

Fungus discases (plants), Greenhouse culture, Heterodera schachtii, Plant injuries, Plant ne-matodes, Rhizoctonia solani, Scedlings, Sugar bects.

2779-69

CONTRIBUTION TO THE KNOWLEDGE OF DOMINANT BIOTYPES OF THE PHYTOPHTHORA INFESTANS ON THE POTATO. (SE)

Z Prpic

Zastita Bilja 18(93/95):101-114 REF

1967 464.8 Z1

Biotypes, Fungus discases (plants), Leaves, Nodules (plants), Phytophthora infestans, Plant disease resistance, Plant genetics, Potatoes, Testing, Tomatoes. English summary.

THE ACCUMULATION OF PHENOLIC ACIDS IN TISSUE CULTURE PATHOGEN COMBINATIONS OF SOLANUM TUBEROSUM AND PHYTOPHTHORA INFESTANS.

N F Robertson J Friend M Aveyard J Brown M Huffce Et Al

J Gen Microbiol 54(2):261-268 REF

Dec 1968 448.3 J823

Chromatography, Phenols, Phytophthora infestans, Plant disease resistance, Potatoes, Tissue culture,

2781.69

RESEARCH RESULTS CONCERNING MEANS OF AGRO-CHEMICAL CONTROL AGROBACTERIUM TUMEFACIENS. (IT)

D Rui N Rizzotto S Bonfante Giornate Fitopatol 255-269

26 Mar 1967 SB599.G5

Agrobacterium tumcfaciens. Chemical control (plant diseases), Cultural control (plant diseases), Soil fumigation, Tables (data).

ELECTRON MICROSCOPE STUDY OF THE FIRST STAGES OF ALTERATIONS OF THE CHLOROPLASTS IN NICOTIANA XANTHI N. C. IN ITS HYPERSENSITIVE REACTION TO THE TOBACCO MOSAIC VIRUS. (FR

R Scalla R Meignoz C Noirot-Timothee C Martin Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):527-530 REF

20 Jan 1969 505 P21

Chloroplasts, Electron microscopy, Nicotiana, Plant cytology, Plant physiology, Tobacco mosaic virus, Virus diseases (plants).

2783-69

FURTHER EVIDENCE SUPPORTING THE HYPOTHESIS THAT TWO GENETIC SYSTEMS CONTROL DISEASE REACTION TO MAIZE DWARF MOSAIC VIRUS STRAIN A AND STRAIN B.

G L Scheifele C C Wernham Plant Dis Rep 53(2):150-151

Feb 1969 1.9 P69P

Biological control (plant diseases), Breeding, Corn, Dwarf disease, Dwarf mosaic, Greenhouse culture, Mosaic, Plant disease resistance, Plant genetics, Virus diseases (plants).

APPEARANCE OF WEEDS AND DISEASE IN GRAIN AND CORN AFTER DIRECT DRILLING. (GE)

F Schwerdtle W Koch

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):214-217

Feb 1967 410.9 G31M

Corn, Cultural control (plant diseases), Cultural control (weeds), Grain, Methodology, Plant diseases, Seed planting, Weed control, Wheat. English abstract

2785-69

TOBACCO MOSAIC VIRUS INHIBITION BY BARK EXTRACTS.

R Singh

Experientia 25(2):218 15 Feb 1969 475 EX7

Bark, Biological assay, Inhibitors, Plant extracts, Tobacco mosaic virus, Virus diseases (plants).

STRUCTURAL FEATURES OF THE DEVELOPMENT OF THE POLYSTICHOUSTUBERCULATE FORM OF THE BLISTER SMUT (CAUSATIVE AGENT USTILAGO MAYDIS (0DC). CDA.) ON MAIZE LEAVES. (RUS)

E J Slepian I V Karatygin

Bot Zhur (moscow) 53(11):1617-1621

Nov 1968 451 R923

Corn, Fungus discases (plants), Fungus germination, Fungus physiology, Smut, Ustilago maydis. English abstract

CALLUSOMORPHIC STAGE IN DEVELOP-MENT OF GALLS CAUSED BY USTILAGO MAYDIS (DC) CDA. ON CORN LEAVES.

E 1 Slepyan

Acad Sci U Ssr Dokl Bot Sci 179(MAR-APR):61-

1968 511 P444AE

Callus (plants), Corn, Fungus diseases (plants), Leaves, Morphology, Plant galls, Ustilago maydis. Translated from Russian.

2788-69

REACTION OF BARLEY VARIETIES TO HEL-MINTHOSPORIUM TERES SACC. AND HEL-MINTHOSPORIUM SATIVUM PAM. KING AND BAKKE. (SE

H Smiljakovic B Kostic Zastita Bilja 18(93/95):125-131 1967 464.8 Z1

Barley, Crop varieties, Crop yields, Fungus diseases (plants), Helminthosporium sativum, minthosporium teres, Plant breeding, Plant disease resistance. English summary.

OCCURENCE OF A NEW PHYSIOLOGIC RACE OF COFFEE RUST (HEMILEIA VASTATRIX).

M S Sreenivasan C C Chinnappa

Indian Coffee Monthly Bull 32(3):94

Mar 1968 68.29 IN23M

Biological control (plant diseases). Coffee, Crop varieties, Fungus diseases (plants), Hemileia vastatrix, Leaf rust, Parasitism, Plant disease re-

AN INVESTIGATION OF CERTAIN FACTORS IN THE HOST-PATHOGEN RELATIONSHIP OF CERCOSPORA ARACHIDICOLA ON THE PE-ANUT PLANT ARACHIS HYPOGAEA VAR. AR-GENTINE.

R V Sturgcon

Diss Abstr Sect B 29(3):839B

Sep 1968 Z5055.U49D53

Cercospora arachidicola, Chemical control (plant diseases), Fungus diseases (plants), Leaf spot, Mancb, Peanuts, Temperature.

INFECTION, RECOVERY FROM INFECTION AND RESISTANCE OF APRICOT TREES TO VERTICILLIUM ALBO-ATRUM.

J B Taylor N T Flentje

New Zeal J Bot 6(4):417-426 REF

Dec 1968 450 N48

Apricots, Fungus diseases (plants), Fungus pathogenicity, Plant disease control, Plant disease resistance, Verticillium albo-atrum.

PURIFICATION AND PROPERTIES OF BROAD BEAN WILT VIRUS.

R H Taylor P R Smith C Reinganum A J Gibbs Australian J Biol Sci 21(5):929-935

Oct 1968 442.8 AU72

Broadbeans, Centrifugation, Electron microscopy, Serological tests, Virus diseases (plants), Wilt.

Broad bean wilt virus was purified and its physiological and serological properties described.

THE SPECIAL FORMS IN THE CLASSIFICA-TION OF PHYTOPATHOGENIC BACTERIA. (SE)

Z P Tesic

Zastita Bilja 18(93/95):45-53 REF

1967 464 8 71

Bacteria, Bacterial diseases (plants), Microbiology, Nomenclature, Saprophytes, Taxonomy. English summary.

2794-69

AN UNUSUAL STRAIN OF TOBACCO MOSAIC VIRUS FROM ORCHIDS.

A D Thomson B A Smirk

New Zeal J Bot 5(2):197-202 REF

Jun 1967 450 N48

Cymbidium, Disease transmission, Orchidaceae, Serological tests, Tobacco mosaic virus, Virus diseases (plants).

A strain of TMV isolated from Cymbidium orchids exhibited differences from the common TMV strain in that it induced small lesions on N, glu-tinosa it did not infect N, tabacum and it was scrologically distinguishable by means of the cross absorption test.

2795-69

A STUDY OF THE MAIZE MOSAIC VIRUS OC-CURRENCE AND ITS EFFECT ON THE GROWTH AND YIELD OF SOME CORN VARIETIES AND HYBRIDS. (SE

M Tosic M Misovic Zastita Bilia 18(93/95):173-181 REF 1967 464.8 Z1

Corn, Crop varieties, Crop yields, Mosaie, Plant breeding, Plant physiology, Virus diseases (plants). English summary

PERMEABILITY PHENOMENA IN PLANT DIS-EASE.

H Wheeler P Hanchey

Annu Rev Phytopathol 6:331-350 REF

1968 464.8 AN72

Calcium, Cell wall, Permeability, Plant disease resistance, Plant diseases, Plasma membrane, Plas-

THE ULTRASTRUCTURE OF THE STROMA OF THE BROWN ROT FUNGI.

H J Willetts F D Calonge Arch Mikrobiol 64(4):279-288

30 Jan 1969 442.8 AR26

Brown rot, Electron microscopy, Fungus diseases (plants), Morphology, Verticillium albo-atrum.

# **ARTHROPODS**

2798-69

ROLE OF APHIDS IN THE ECOLOGY OF PLANT VIRUSES. SWENSON, K G.

Annu Rev Phytopathol 6:351-374 REF 1968 464.8 AN72

Aphididae, Ecology, Epidemiology, Insect populations, Insect vectors, Plant disease transmission, Virus diseases (plants).

THE USE OF STERILE MALES TO CONTROL POPULATIONS OF QUEENSLAND FRUIT FLY, DACUS TRYONI (FROGG.) (DIPTERA: DACUS TRYONI (FROGG.) (DIPTERA: TEPHRITIDAE). II. FIELD EXPERIMENTS IN NEW SOUTH WALES.

H G Andrewartha J Monro N L Richardson Australian J Zool 15(3):475-499 MAP

May 1967 410 AU73

Biological control (inseets), Daeus tryoni, Field test. Sterile males.

SIMPLIFICATIONS IN THE CONTROL OF THE PHYTOPHAGA OF OLIVES. (IT

E Antongiovanni

Giornate Fitopatol 373-381

26 Mar 1967 SB599.G5

Chemical control (insects), Daeus oleae, Dimethoate, Liothrips oleae, Olives, Phenthoate, Prays oleelus.

2801-69

PSYLLA PRUNI SCOP.-THE PLUM PSYLLA.

M Bogavac

Zastita Bilja 18(93/95):169-171

1967 464 8 7.1

Insect eggs, Insect pests, Larvac, Plums, Prunus spinosa, Psylla, Temperature. German summary.

SOME PROBLEMS REGARDING DEFENSE OF THE APPLE AGAINST THE IN-FESTATIONS BY SOME APHID SPECIES. (IT) P L Castellari P Giunchi M M Principi

Giornate Fitopatol 309-320

26 Mar 1967 SB599.G5

Aphididae, Aphis pomi, Apples, Biological control Dysaphis plantaginea, lanigerum, Parasitism, Predaccous inseets.

2803-69

INFLUENCE OF FEEDING, OVIPOSITION, AND EGG AND LARVAL DEVELOPMENT OF THE BOLL WEEVIL ON ABSCISSION OF COTTON SQUARES.

J M Coakley F G Maxwell J N Jenkins J Econ Entomol 62(1):244-245 17 Feb 1969 421 J822

Abseission, Anthonomus grandis, Cotton, Feeding, Insect eggs, Insect morphology, Larvae, Oviposition, Plant physiology.

THE SPINED CITRUS BUG-BIPRORULUS BIBAX BREDD. (HEMIPTERA: PEN-TATOMIDAE).

J G Gellatley

Agr Gaz New S Wales 79(1):31-33 MAP

Jan 1968 23 N472

Carbaryl, Chemical control (insects), Citrus, Diazinon, Dimethoate, Fenthion, Insect geography, Insect morphology, Life cycle, Malathion, Mevinphos, Pentatomidae.

The spined citrus bug (Biprorhus bibax) is described as a citrus pest and several insecticides are recommended for its control.

EPIMEGASTIGMUS BREVIVALVUS (HYMENOPTERA: TORYMIDAE), A PARASITE OF CITRUS GALL WASP IN THE SYDNEY DIS-TRICT.

F A Gibson J G Gellatley

Agr Gaz New S Wales 79(5):312-314 MAP May 1968 23 N472

Bruchophagus, Citrus, Biological control. Epimegastigmus brevivalvus, Parasitic insects.

Epimegastigmus brevivalvus, a parasite of the citrus gall wasp, Bruchophagus fellis was released in Australia as a biological control agent. The intesity of parasitimsm and effectiveness of the project are discussed.

2806-69

RESOLUTE RESEARCH TO DEFEAT GRASS-GRUB.

B B Given

New Zeal J Agr 116(4):82-83

Apr 1968 23 N48J

Costelytra zealandica, Grasses, Insect adaptation, Integrated control (insects), Mcthodology, Odontria variceolorata, Pasture management, Pinus.

In the process of developing the best kind of pasture for livestock, the ideal environment for the grass grub was also created and Costelytra zealandica and a related species, Odontria variecolorata, have become major pests. Control research was slowed with the use of DDT, but extensive research into all aspects of the biology of the grassgrub and possible control measures is now being carried out.

INSECTS OF THE SEASON 1967 RELATED TO FRUIT, VEGETABLES AND ORNAMENTALS.

H W Goble

Entomol Soc Ontario Proc 98:5-6

1967 420 ON8

Crops, Fruit, Insect pests, Ornamental plants, Plant injuries, Surveys, Time, Vegetables. Many insect pests are mentioned.

A VIRUS-LIKE STRUCTURE IN THE DESERT LOCUST.

F Hawkes

Naturwissenschaften 55(11):547

Nov 1968 474 N213

Larvae, Schistocerca gregaria, Spermatoeytes, Virus diseases (insects).

A virus-like structure was observed in the spermatoeytes of the desert locust by means of the cleetron microscope.

NEW HOST PLANT OF ACHERONTIA ATROPOS LINN. (LEPIDOPTERA: SPHIN-GIDAE).

H P van Heerden

S Afr J Agr Sci 10(3):847-848

Scp 1967 24 SU3

Aeherontia, Ekcbergia eapensis, Host plants, Plant gcography.

PHYSIO-CHEMICAL PROBLEMS DEVELOPING DUSTING CHEMICALS AND SEED INCRUSTING CHEMICALS ADHERING IN NET CONDITIONS. (HU

Kiserletugyi Kozlemenyek 58/C(3):79-85

1967 105.9 H89

Dusting, Flaxsced, Insecticide application, Methodology, Paraffins, Seed treatment, Wheat. English and Russian abstracts

INSECT SECRETIONS IN PLANTS.

P W Miles

Annu Rev Phytopathol 6:137-164 REF 1968 464.8 AN72

Feeding, Gall-making insects, Glands (insects), Ovulation, Plant disease resistance, Plant disease transmission, Plant physiology, Salivary glands (insects), Secretion, Tissues, Virus diseases (plants).

INSECT TRANSMISSION AND PATHOGENICITY STUDIES OF CERATOCYSTIS FIMBRIATA IN STONE FRUITS.

W J Moller

Diss Abstr Sect B 29(3):837B-839B

Sep 1968 Z5055.U49D53

Ceratocystis fimbriata, Fungus discases (plants), Insect vectors, Plant disease transmission, Prunus, Research.

THE USE OF STERILE MALES TO CONTROL POPULATIONS OF QUEENSLAND FRUIT-FLY, DACUS TRYONI (FROGG.) (DIPTERA: TEPHRITIDAE), I. METHODS OF MASS-REAR-ING, TRANSPORTING, IRRADIATING, AND RELEASING STERILE FLIES.

J Monro A W Osoorn

Australian J Zool 15(3):461-473 REF

May 1967 410 AU73

Biological control (insects), Dacus tryoni, Insect rearing, Irradiation, Methodology, Sterile males.

NOTE ON THE CONTROL OF GALL-FLY (ASPHONDYLIA SESAMI FELT.) ON SESAME.

S V Muhammad N R Chandrasekharan N Srinivasalu

Indian J Agr Sci 38(4):666-667

Aug 1968 22 AG831

Asphondylia sesami, Benzene hexachloride, Chemical control (inseets), Chlorinated hydrocarbons, DDT, Endrin, Gall-making insects, Organophosphorus compounds, Parathion, Sesame.

Of the insecticides tested, BHC dust at ten per cent proved most effective in controlling the gall fly, Asphondylia sesami, on sesame plants.

A PARASITE TO DESTROY CLOVER PEST.

New Zeal J Agr 118(1):85

Jan 1969 23 N48J

Biological control, Braeonidae, Coleophoridae, Parasitie insects, White clover.

Coleophora spissicornis and C. alcyonipennella attack the economically important white clover of New Zealand. Recently the hymenopterous parasite, Bracon variegator, has been introduced, to aid in the contol of these insect pests.

DIFFERENTIAL TRANSMISSION OF STRAINS OF CUCUMBER MOSAIC VIRUS BY APHIDS.

R A Normand T P Pirone

Virology 36(4):538-544 REF

Dec 1968 448.8 V81

Aphididae, Cucumbers, Inseet vectors, Mosaic, Myzus persicae, Plant disease transmission, Virus diseases (plants).

2817-69

RESEARCH AND CURRENT DIRECTIONS IN THE FIELD OF THE DEFENSE OF CULTIVATED PLANTS AGAINST THE ATTACKS OF ARTHROPODS. (IT

#### CROP PROTECTION

2818-69

M M Principi

Giornate Fitopatol 305-308

26 Mar 1967 SB599.G5

Biological control (insects), Chemical control (inseets), Insect pests, Italy, Research.

CONCERNING MATERIALS KNOWLEDGE OF LEPIDOPTERA PESTS OF ORCHARDS. (POL)

T Riedl

Pol Pismo Entomol 38(2):417-428 REF

1968 421 P76

Apples, Insect pests, Larvae, Lepidoptera,

IMPORTANT FOREST INSECTS OF ONTARIO IN 1967.

A H Rose

Entomol Soc Ontario Proc 98:8-10

1967 420 ON8

Forest insects, Forests, Insect pests, Time, Tree injuries, Trecs.

2820-69

INSECTICIDAL . TRIALS TO CONTROL MUSTARD APHID, LIPAPHIS ERYSIMI KALT., LARGER MOTH, CROCIDOLMIA BINOTALIS ZELL., AFFECTING MUSTARD CROP.

G Rout S C Pani

Indian J Agr Sci 38(5):828-831

Oct 1968 22 AG831

Chemical control (insects), Crocidolmia, Crop losses, Endrin, Insecticides, Lipaphis erysimi, Menazon, Mustard.

Endrin and menazon proved most sucessful in controlling Lipaphis erysimi and Crocidolmia binotalis, serious pests of mustard crops.

EFFECTIVENESS OF STANDARD AND NEW COMPOUNDS FOR THE CONTROL OF BUD MITE, ACERIA SHELDONI EWING, ON NAVEL ORANGES.

A Schwartz F J Riekert

S Afr J Agr Sci 10(3):609-

Sep 1967 24 SU3

Aceria sheldoni, Chemical control (insects), Chlorobenzilate, Dicofol, Dimethoate, Endosulfan, Morestan, Oranges, Parathion.

ENVIRONMENTAL BIOLOGY OF ERIOSOMA PYRICOLA BAKER AND DAVIDSON.

S L Sethi

Diss Abstr Sect B 29(3):882B-883B

Sep 1968 Z5055.U49D53

Environment, Eriosoma pyrieola, Inscet biology, Insect cultures, Pears, Photoperiodism, Roots, Temperature.

ESTIMATION OF LOSS IN JUTE FIBRE YIELD DUE TO JUTE STEMWEEVIL, APION CORCHORI MARSHALL (CURCULIONIDAE: COLEOPTERA).

R L Tripathi S P Bhattacharya

Indian J Agr Sci 38(5):870-873

Oct 1968 22 AG831

Apion corchori, Chemical control (insects), Crop losses, Endrin, Jute.

INVESTIGATIONS ON THE ENTOMOFAUNA ACCOMPANYING APHIDS OCCURRING ON FRUIT TREES AND BUSINES.

S K Wiackowski I Wiackowska

Pol Pismo Entomol 38(2):255-283

1968 421 P76

Aphididae, Fruit, Insect control, Insect identifica-tion, Insect pests, Larvae, Nomenelature, Parasites, Plant protection, Predaecous insects, Quantitative analysis. Polish summary.

2825-69

RESULTS OF INVESTIGATIONS ON THE RESULTS OF INVESTIGATIONS ON THE SUSCEPTIBILITY OF DIFFERENT VARIETIES OF PISUM SATIVUM L. TO ATTACKS OF LASPEYRESIS NIGRICANA STEPH. (LEP., TORTRICIDAE). (POL)

A Wnuk

Pol Pismo Entomol 38(2):453-461 REF

1968 421 P76

Crop varieties, Insect pests, Laspeyresia nigrieana, Oviposition, Peas, Pisum sativum, Plant physiology, Susceptibility. English summary

SOME FACTORS INFLUENCING THE POPU-LATION DYNAMICS OF SYNANTHEDON TIPULIFORMIS CL. (LEPIDOPTERA, AEGERIIDAE).

N L Yakimova

Entomol Rev 47(1 JAN-MAR):10-16 REF

Mar 1968 421 R322AE

Cultural control (insects), Currants, Insect pests, Plant pest control, Population, Pruning, Synanthedon tipuliformis.

# **NEMATODES**

2827-69

GOLDEN NEMATODE. NOTICE OF PUBLIC HEARING.

R J Anderson

Fed Regist 34(40):3630

28 Feb 1969 L1.451

Heterodera rostochiensis, Plant nematodes, Potatoes, Regulations.

PATHOGENECITY OF **PRATYLENCHUS** BRACHYURUS TO CITRUS.

T L Brooks

Diss Abstr Sect B 29(3):819B

Sep 1968 Z5055.U49D53

Citrus, Plant nematodes, Pratylenehus braehyurus, Radopholus similis, Seedlings, Trees.

MELOIDOGYNE INCOGNITA ACRITA INFEC-TION FAILURE IN AERIAL PARTS OF COT-TON.

F E Caveness

Plant Dis Rep 53(2):97-99

Feb 1969 1.9 P69P

Cotton, Mcloidogyne incognita acrita, Plant nematode resistance, Plant nematodes, Roots.

POTATO CYST EELWORM AND THE ADVENT OF EELWORM-RESISTANT POTATOES IN SW. LANCASHIRE.

G M Dixon J M Holliday G M Jones D D Barber P A Dover et. al69A

Great Brit NAAS (nat Agr Adv Serv) Quart Rev (81, AUTUMN):27-34 MAP REF

1968 241 G796

Heterodera rostochiensis, Plant breeding, Plant nematode resistance, Potatoes.

2831-69

RELATIONSHIPS BETWEEN INFECTION PRESSURE AND TERMINAL INFECTION IN THE CASE OF HETERODERA ROSTOCHIEN-SIS WOLL.,. (GE

M Ebert

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):33-38

Fcb 1967 410.9 G31M

Cysts, Heterodera rostochiensis, Plant nematode resistance, Potatoes. English abstract

OBSERVATIONS ON SOIL EXHAUSTION BY ROSACEAE. (GE)

H Faber

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):29-32

Feb 1967 410.9 G31M

Malus, Plant nematodes, Prunus, Rosa, Soil science, Soil sterilization, Soil-borne pests. English abstract

CROP ROTATION EFFECTS AND NE-MATODES. (GE)

M. I. Hijink

Berlin Biol Bundesansı Land-forstwirtsch Mitt (121):21-28

Feb 1967 410.9 G31M

Crop rotation, Nematode populations, Plant disease transmission, Plant nematodes. English abstract

SUGAR BEET NEMATODE (HETERODERA SUGAK BELI NEMATODE (HETERODERA SCHACHTII) REARED ON AXENIC BETA VULGARIS ROOT EXPLANTS. II. SELECTED ENVIRONMENTAL AND NUTRITIONAL FACTORS AFFECTING DEVELOPMENT AND SEX RATIO.

R N Johnson D R Viglierchio

Nematologica 15(1):144-152 REF

Mar 1969 436.8 N342

Beets, Heterodera sehaehtii, Inseet morphology, Insect rearing, Sucrose, Temperature, Vitamins.

SUGAR BEET NEMATODE (HETERODERA SCHACHTII) REARED ON AXENIC BETA VUL-GARIS ROOT EXPLANTS. I. SELECTED EN-VIRONMENTAL FACTORS AFFECTING AFFECTING PENETRATION.

R N Johnson D R Viglierehio

Nematologica 15(1):129-143 REF

Mar 1969 436.8 N342

Beets, Heterodera schaehtii, Insect rearing, Nematode infestation, Plant nematode resistance, Sucrose, Vitamins.

2836-69

DISTRIBUTION AND DAMAGING EFFECT OF THE GENUS PRATYLENCHUS IN WESTPHALIA-LIPPE. (GE)

A Kemper

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):88-92

Feb 1967 410.9 G31M-

Barley, Crop yields, Nematode infestation, Plant nematodes, Pratylenchus, Soil acidity. English ab-

2837-69

TEN YEAR OBSERVATIONS ON THE APPEARANCE OF OAT NEMATODES IN THE RHEINLAND-PFALZ. (GE )

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):62-65

Feb 1967 410.9 G31M

Barley, Heterodera avenae, Nematode infestation, Oats, Plant disease transmission, Plant nematodes, Wheat, English abstract

2838-69

DISCOCRICONEMELLA YOSSIFOVICHI N. SP. (NEMATODA: CRICONEMATIDAE) ON GRAPE VINE IN YUGOSLAVIA. (SE )

D Krnjaie Zastita Bilja 18(93-95):155-160 REF

1967 464.8 Z1

Climbing plants, Criconematidae, Grapes, Plant nematodes, Taxonomy. English summary.

INVESTIGATION INTO THE OAT NEMATODE PROBLEM. (GE)

E Lucke H Wcber

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):66-70 REF

Feb 1967 410.9 G31M

Barley, Heterodera avenae, Oats, Plant breeding, Plant nematode resistance, Wheat. English abstract

ADDITIONS TO HOST RECORDS OF ROOT KNOT NEMATODES.

R L Mathur B N Mathur D K Handa Nematologica 15(1):160-161

Mar 1969 436.8 N342

Host range, Meloidogyne, Plant hosts, Root knot nematode.

CEREAL CYST NEMATODE--A NEMATODE NEW TO NEW SOUTH WALES.

R W McLeod

Agr Gaz New S Wales 79(5):293-295

May 1968 23 N472

Crop rotation, Grain, Hetcrodera avenae, Plant disease transmission, Plant nematodes, Zoogeog-

The grain nematode, Heterodera avenae, its development, transmission, distribution and control through crop rotation are discussed.

#### 2842-69

OOGENESIS AND REPRODUCTION OF HETERODERA ORYZAE AND H. SACCHARI (NEMATODA: HETERODERIDAE). (FR )

Nematologica 15(1):10-14 REF

Mar 1969 436.8 N342

Chromosomcs, Cytology, Heterodera, Meiosis, Mitosis, Nematology, Oogenesis, Reproduction. English summary.

#### 2843-69

ECONOMICALLY IMPORTANT **PLANT** PARASITIC NEMATODES IN ONTARIO.

T H A Olthof J L Townshend J W Potter Entamol Soc Ontario Proc 98:6-8

1968 420 ON8

Ditylenchus dipsaci, Economics, Heterodera, Meloidogyne, Parasitism, Plant injuries, Plant nematodes, Pratylenchus.

#### 2844-69

REDUCTION OF ROOT KNOT OF TOMATOES IN DEXTROSE-AND AMMONIUM NITRATE-AMENDED SOIL INFESTED WITH THE NE-MATOPHAGOUS FUNGUS ARTHROBOTRYS OLIGOSPORA.

Th H A Olthof R H Estey Nematologica 15(1):157-159

Mar 1969 436.8 N342

Ammonium nitrate, Arthrobotrys, Biological control, Glucose, Meloidogyne, Nematode controlling fungi, Root knot, Tomatoes.

#### 2845-69

RESULTS OF THE CONTROL OF TYLENCHU-LUS SEMIPENETRANS COBB., A PARASITIC NEMATODE OF CITRUS, BY MEANS OF 1,2-DIBROMO-3-CHLOROPROPANE. (IT)

G Perrotta M Salerno

Giornate Fitopatol 449-453

26 Mar 1967 SB599.G5

Chemical control (nematodes), Citrus, Dibromo-3chloropropane, 1,2-, Plant nematodes, Tylenchulus semipenetrans.

#### 2846-69

WILD AND CULTIVATED GRASS HOSTS OF THE SOUTHERN ROOT-KNOT NEMATODE, MELOIDOGYNE INCOGNITA.

J W Potter J L Townshend T R Davidson

Nematologica 15(1):29-34 REF

Mar 1969 436.8 N342

Grasses, Host range, Meloidogyne incognita, Plant hosts, Reproduction.

#### 2847-69

THE CONDITION OF CYSTS OF POTATO NE-MATODES IN PURIFICATION PLANTS. (GE) F Sprau

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):39-44

Feb 1967 410.9 G31M

Heterodera rostochiensis, Plant discase transmission, Potatoes, Water pollution, Water treatment. English abstract

#### 2848-69

INVESTIGATION INTO THE VERTICAL MIGRATION OF MELOIDOGYNE HAPLA. (GE

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):93-96

Feb 1967 410.9 G31M

Demography, Meloidogyne hapla, Nematode migration, Plant nematodes, Sandy soils. English abstract

#### 2849-69

APPEARANCE AND DAMAGING EFFECT OF HETERODERA SCHACHTII IN SUGAR BEET FARMS IN THE RHEIN. (GE)

W Steudel

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):45-49

Feb 1967 410.9 G31M

Chemical control (nematodes), Crop rotation, Heterodera schachtii, Nematocides, Sugar beets. English abstract

COSTS AND RESULTS OF THE CONTROL OF THE GOLDEN NEMATODE OF THE POTATO. (IT)

R Verneau

Giornate Fitopatol 437-441

26 Mar 1967 SB599.G5

Chemical control (nematodes), Costs, Crop varieties, Dichloropropane dichloropropene mixture, Heterodera rostochiensis, Methyl bromide, Plant nematodes, Potatoes.

#### 2851-69

THE DYNAMICS OF NEMATODE MOVE-MENT.

H R Wallace

Annu Rev Phytopathol 6:91-114 REF

1968 464.8 AN72

Animal ecology, Animal protective devices, Locomotion, Plant nematodes, Soil analysis, Water.

#### 2852-69

DEVELOPMENTAL TENDENCIES IN PHYTONEMATOLOGY. (GE)

B Weischer

Berlin Bial Bundesanst Land-forstwirtsch Mitt (121):12-20 REF

Feb 1967 410.9 G31M

Crop rotation, Host relationships, Nematode control, Plant disease transmission, Plant nematodes, Research. English abstract

#### WEEDS

WHEN ALGAE ARE A NUISANCE.

Nature 220(5168):648

16 Nov 1968 472 N21

Algae, Aquatic plants, Biological control (pests), Gases, Light, Pest control.

HERBICIDE **SCREENING** TRIALS ON VEGETABLE CROPS.

M Arayindakshan

Agr Res J Kerala 5(1/2, MAR-SEP):31-39 1967 22 AG823

Chemical control (weeds), Herbicides, Plant injuries, Vegetables. 16 herbicides were tested.

SEVERAL YEAR OLD TESTS ON CHEMICAL CONTROL OF WILD SORGUM (ECHINOCLOA CRUS GALLI) IN CORN. (GE)

G Bachthaler F G Hoyos

Berlin Bial Bundesanst Land-forstwirtsch Mitt (121):234-240

Feb 1967 410.9 G31M

Atrazine, Chemical control (weeds), Chlorophenyl)-1-methoxy-1-methyl-urea, 3-(p-, Corn, Echinochloa crus-galli, Prometryne, English abstract

SOME CONSIDERATIONS ON CHEMICAL WEED CONTROL IN ITALIAN BEET FIELDS AND A SURVEY OF SOME EXPERIMENTAL DATA COLLECTED IN 1966. (IT)

G C Bongiovanni

Giornate Fitopatol 511-521 REF

26 Mar 1967 \$B599 G5

Chemical control (weeds), Herbicide application, Lenacil, Methodology, Pyrazon, Sugar beets, Ta-bles (data). Other less effective herbicides were also tested

#### 2857-69

EFFECT OF REPEATED ANNUAL USE OF ATRAZINE ON CORN.

O C Burnside G A Wicks C R Fenster Agron J 61(2,MAR-APR):297-299

Apr 1969 4 AM34P

Atrazine, Chemical control (weeds), Corn, Crop losses, Herbicide residues, Plant physiology, Wecd control.

#### 2858-69

WEED CONTROL TESTS IN ONION FIELDS. (IT)

B Casarini G Silvestri

Giornate Fitopatol 499-506

26 Mar 1967 SB599.G5

Chemical control (weeds), Chlorinated hydrocarbons, Dacthal, Onions, Tables (data), Weeds. Other less effective herbicides were tested.

PERENNIAL WEED GRASSES AND THEIR CONTROL IN RELATION TO CEREAL GROW-ING.

G W Cussans

Great Brit NAAS (nat Agr Adv Serv) Quart Rev (81, AUTUMN):7-12

1968 241 G796

Agropyron repens, Amitrole, Chemical control (weeds), Dalapon, Defoliation, Drying, Grain, Paraquat, Plowing, Seasonal variation, TCA, Weed

Physical and chemical control methods for couch grass (Agropyron repens) in grain fields are discussed.

#### 2860-69

EFFECT OF HERBICIDES ON GROWING WHEAT APPLIED SIMULTANEOUSLY WITH CALCIUM CYANAMIDE FERTILIZERS. (GE) R Diercks

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):226-233

Feb 1967 410.9 G31M

Alopecurus myosuroides, Calcium cyanamide, Cercosporella herpotrichoides, Chemical control (weeds), Dicotyledons, Fertilizers, Herbicides, Plant physiology, Simazine, Wheat. English abstract

#### 2861-69

WEED CONTROL IN SEPARATE CULTURES BY BURNING OFF. (GE)

H Faber

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):281-284

Feb 1967 410.9 G31M

Equipment, Herbicides, Methodology, Weed burners, Weed control. English abstract

WEED CONTROL AND PLANT RESIDUE MAINTENANCE WITH VARIOUS TILLAGE TREATMENTS IN A WINTER WHEAT-FAL-LOW ROTATION.

C R Fenster C E Domingo O C Burnside Agron J 61(2,MAR-APR):256-259 REF

Apr 1969 4 AM34P Bromus tectorum, Mulches, Plowing, Triticum aestivum, Weed control.

2863-69

INFLUENCE OF VARIOUS SOIL PROPERTIES AND MOISTURE ON THE ACTION OF UREA DERIVITIVES ON GRASSY WEED CONTROL IN WINTER GRAINS. (GE.)

M Hanf J Jung

Berlin Biol Bundesaust Land-forstwirtsch Mitt (121) 186-191

Feb 1967 410.9 G3IM

Barley, Buturon, Chemical control (weeds), Cycluron, Soil moisture, Soil properties, Urca deriva-tives, Wheat. English abstract

HERBICIDES IN PLANT PROTECTION. (GE)

K Hofmann

Berlin Biol Bundesanst Land-farstwirtsch Mitt (121):277-280

Feh 1967 410.9 G31M

Agropyron repens, Convolvulus, Domatol special, Herbicides, Plant protection, Weed control, Windbreaks. English abstract.

CHLORTHIAMID AGAINST BIND WEED IN BASKET WILLOW CULTURES. (GE

W Kampe

Berlin Biol Bundesaust Land-farstwirtsch Mitt (121):259-262

Feb 1967 410.9 G31M

Chemical control (weeds), Chlorthiamid, Convolvulus, Herbicides, Salix viminalis, Weed control. English abstract

UPTAKE AND TRANSLOCATION OF SUB-STITUTED ANILINE HERBICIDES IN PEANUT SEEDLINGS.

M L Ketchersid T E Boswell M G Merkle Agron J 61(2,MAR-APR):185-187

Apr 1969 4 AM34P

Chromatography, Herbicides, Peanuts, Plant physiology, Plant translocation, Seedlings, Trifluralin.

AUTUMN WEED CONTROL FOR CONTINU-OUS CEREAL GROWERS.

G H MacKenzie

Scat Agr 47(4.AUTUMN):192-193

1968 10 SCO82SO

Agropyron repens, Chemical control (weeds), Fertilizers, Grain, Juncus, Plowing, Weed control.

2868-69

WHEAT CONTROL IN WHEAT.

A D Mears

Agr Gaz New S Wales 79(2):66-71 Feh 1968 23 N472

Barban, Chemical control (weeds), Crop yields, Cultural control (weeds), D, 2,4-, Herbicides, In-tegrated control (weeds), Methodology, Tri-allate,

Wheat crops are damaged considerably by weeds and the author presents cultural and chemical methods of weed control.

CHEMICAL WEED CONTROL IN FINLAND IN 1887--1965.

J Mukula E Ruuttunen

Ann Agr Fenn 8(SUPPL 1):1-45 MAP REF 1969 20 AN7

Catalogs, Chemical control (weeds), Herbicide application, Herbicide residues, Herhicides, History, Weed control.

THE SIGNIFICANCE OF THE GRANULATION OF DICHLOBENIL FOR WEED CONTROL IN SEVERAL YEAR OLD CULTURES. (GE ) H H Nolle

Berlin Biol Bundesaust Land-forstwirtsch Mitt (121):251-258

Fch 1967 410.9 G31M

Agricultural economics, Chemical control (weeds), Chlorthiamid, Dichlohenil, Granular herbicides, Weed control. English abstract

2871-69

PROGRESS AND GOALS OF CHEMICAL WEED CONTROL. (GE  $)\,$ 

H Orth

Berlin Bial Bundesanst Land-forstwirtsch Mitt (121):168-176 REF

Feb 1967 410.9 G31M

Carrots, Chemical control (weeds), Corn, Grain, Herbicide application, Plant mutation, Sugar beets, TBA, Weed control. English abstract

2872-69

TESTS OF CHEMICAL WEED CONTROL IN ONION FIELDS. (IT)

G Rapparini G Marocchi

Giarnate Fitapatal 507-510

26 Mar 1967 SB599.G5

Chemical control (weeds), Chlorinated hydrocarbons, CIPC, Dacthal, Onions, Weeds. Other less effective herbicides were tested.

CHEMICAL WEED CONTROL EXPERIMENTS DPA IN RICE. (HU)

Z Sajo

Kiserletugyi Kozlemenyek 58/A(1):27-45 REF 1966 105.9 H89

Chemical control (weeds), Cyperaceae, DPA, Rice, Weed control. English and Russian abstracts

WEED CONTROL WITH GROWTH REGULAT-ING SUBSTANCES IN MICRO GRANULE HER-BICIDES. (GE)

K H Walther

Berlin Bial Bundesaust Land-forstwirtsch Mitt (121):248-250

Feb 1967 410.9 G31M

Agricultural economics, Chemical control (weeds), Grain, Granular herbicides, Plant growth regulator, Weed control. English abstract

CONTROL OF DICOLYLEDON WEED SEEDS AND MILLET WEED IN BEANS WITH SOIL HERBICIDES. (GE)

**B** Wurzer

Berlin Biol Bundesaust Land-forstwirtsch Mitt (121):241-247

Fcb 1967 410.9 G31M

Beans, Chemical control (weeds), Chlorophenyl)-I-methoxy-I-methyl-urea, 3-(p-, Dicotyledons, Herbicides, Millet, Sceds, Weed control. English

# LIVESTOCK PROTECTION

2876-69

ASCARIASIS IN PIG AND IN MAN.

J M Barry F J O'frourke

Ray Dublin Sac Sci Proc Ser A 3(4):39-55 REF

Animal morphology, Ascariasis, Ascaris lumbricoides, Ascaris lumbricoides suum, Epidemiology, Humans, Parasites, Serological tests, Swine, Zoonoses.

EPIDEMIOLOGICAL TRENDS IN DISEASE OF LIVESTOCK KEPT UNDER INTENSIVE CON-DITIONS.

P G Box

Vet Rec 83(24):613

14 Dec 1968 41.8 V641

Coccidiosis, Environment, Epidemiology, Livestock diseases, Parasitism, Poultry, Respiratory diseases, Virus diseases (animals). Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

SHEEP DISEASE PROBLEMS ASSOCIATED WITH HIGH DENSITY STOCKING.

G E Charles

Agr Gaz New S Wales 79(5):271-273 May 1968 23 N472

Anoplura, Bacterial diseases (animals), Coccidiosis, Haemonchus contortus, Hypocalcemia, Livestock diseases, Mites, Pest control, Phalaris tuberosa, Pregnancy disease, Sheep, Trichostrongy-

The etiology and control of communicable diseases and parasites of sheep are discussed.

KOAGAMIN VETERINARY PARENTERAL HEMOSTAT, DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.

H L Jr. Ley

Fed Regist 34(22):1611

01 Feb 1969 L1.451

Drugs, Malonic acid, Oxalic acid, Phenol compounds, Veterinary medicine.

2880-69

MAMMARY DEVELOPMENT HYPOPHYSECTOMIZED CASTRATED RAB-BITS INJECTED WITH, THYROXINE, COR-TISONE, AND OVARIAN HORMONES.

A Norgren

Lund Univ Acta Univ Lundensis Sect 11 Med Math Sci Ker Nat (33):19P REF

1967 502 L 97A

Castration, Cortisone, Growth factors, Hormones, Laboratory animals, Mammary glands, Ovaries, Pituitary gland, Progesterone, Rabbits, Tahles (data), Thyroxine.

THE EFFECTS OF BALANCING AND IMBALANCING SAFFLOWER PROTEIN ON FOOD CONSUMPTION, BODY WEIGHT GAIN AND CONCENTRATIONS OF PLASMA FREE AMINO ACIDS IN THE YOUNG RAT.

C F Wells

Diss Abstr Sect B 29(3):825B Sep 1968 Z5055.U49D53

Amino acids, Animal physiology, Blood plasma, Diet, Feeding, Proteins, Rats, Salilower.

# DISEASES

2882.69

MORTALITY AMONG CHINOOK SALMON ASSOCIATED WITH THE FUNGUS DERMO-CYSTIDIUM,

R L Allen T K Meekin G B Pauley M P Fujihara Can Fish Res Board J 25(11):2467-2475 Nov 1968 442.9 C16J

Chemical control (animal diseases), Dermocystidium, Diquat, Fungus discases (animals), Salmon.

NOTE ON OCCURRENCE OF THE ISOSPORA BIGEMINA (STILES, 1891) LUHE, 1906 IN CANIS FAMILIARIS IN SAO PAULO AND GEO-GRAPHIC DISTRIBUTION OF THE ISOSPORA SPECIES IN DOGS AND CATS, IN BRAZIL

V do Amaral E H Birgel

Saa Paula Inst Bial Arq 35(2,APR-JUN):77-81 REF

Jun 1968 442.9 SA6

Cats, Coccidiosis, Dogs, Isospora, Isospora higemina, Zoogeography. English abstract

THE PATHOGENESIS OF STREET RABIES VIRUS IN RATS.

G M Baer T R Shantha G H Bourne World Health Organ Bull 38(1):119-125 REF 1968 449.9 W892B

Antihodies, Central nervous system, Mortality, Ra-hies, Rats, Virus diseases (animals). French summary.

STUDIES ON WILD RESERVOIRS AND VECTORS OF TRYPANOSOMA CRUZI. XXVIII. ON THE PRESENCE OF TRIATOMA SORDIDA STAL., 1859 AND RHODNIUS NEGLECTUS LENT, 1954 IN NESTS OF FURNARIID BIRDS (HEMIPTERA, REDUVIDAE). (POR.)

M P Barretto J da R Carvalheiro Rev Brasil Biol 28(3):289-293 REF Sep 1968 442.8 R326

Bird nests, Birds, Habitats, Host relationships, Insect vectors, Rhodnius, Triatoma, Trypanosoma cruzi. English summary.

#### 2886-69

IN VITRO ANTIMICROBIAL ACTIVITY OF DIMETHYLSULFOXIDE.

H Basch H H Gadebusch

Appl Microbiol 16(12):1953-1954

Dec 1968 448.3 AP5

Animal diseases, Antibiotics, Bacteria, Culture media, Dimcthylsulfoxide, Drugs, Fungus diseases (animals), Solubility.

#### 2887-69

PORCINE ENTERITIS DUE TO CLOSTRIDIUM PERFRINGENS TYPE C. I. EPIZOOTIOLOGY AND DIAGNOSIS.

M E Bergeland T A Dermody D K Sorensen U S Livestock Sanit Ass Proc 70:601-606 MAP 10 Oct 1966 49.9 UN3R

Clostridium perfringens, Diagnosis, Enteritis, Epizootic discases, Livestock diseases, Swine.

EGG PRODUCTION AND DISEASE.

D M Berry

Vet Rec 83(24):611-612

14 Dec 1968 41.8 V641

Antigens, Chickens, Eggs, Infectious bronchitis virus, Mycoplasma gallisepticum, Productivity, Virus diseases (animals). Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

NITRITE-INDUCED GERMINATION OF CLOSTRIDIUM BUTYRICUM AND CLOSTRIDIUM TYROBUTYRICUM SPORES.

B H Bester J W Claassens P M Lategan S Afr J Agr Sci 10(4):1055-1058 Dec 1967 24 SU3

Biochemistry, Clostridium, Culture media, Nitrites, Spore germination.

#### 2890-69

DIFFERENTIAL DIAGNOSIS OF BOVINE EN-CEPHALITIDES.

E J Bicknell

U S Livestock Sanit Ass Proc 70:162-165

10 Oct 1966 49.9 UN3R

Animal diseases, Cattle, Diagnosis, Encephalitis, Listeriosis, Livestock diseases, Polioencephalomyclitis, Rabies.

THE LEUCOCYTE COUNTS OF CATTLE ABORTING DUE TO BRUCELLA ABORTUS INFECTION COMPARED TO LEUCOCYTE COUNTS OF NONINFECTED CATTLE CALVING NORMALLY.

B W Bicrcr H S Powell

U S Livestock Sanit Ass Proc 70:107-109

10 Oct 1966 49.9 UN3R

Abortion, Bacteria, Brucella abortus, Cattle, Leukocytes, Livestock diseases, Reproduction.

PROTEIN-DEFICIENT DIET AND DDT TOXICI-

E M Boyd E S Dc Castro

World Health Organ Bull 38(1):141-150 REF 1968 449.9 W892B

Animal nutrition, Chlorinated hydrocarbons, Diet, DDT, Insecticides, Kidneys, Liver, Proteins, Rats. French summary.

#### 2893-69

CLINICAL SIGNS AND PATHOLOGY OF CHRONIC PANCREAS DISEASES OF THE DOG. (GE)

M Brack P Bartels

Kleintier-Praxis 13(1):9-16 REF

Feb 1968 41.8 K67

Animal diseases, Dogs, Neoplasms, Pancreas, Serological tests, Symptomatology.

#### 2894-69

CONTROL OF DNA SYNTHESIS IN CELLS IN-FECTED WITH POLYOMA VIRUS,

P E Branton R Sheinin

Virology 36(4):652-661 REF

Dec 1968 448.8 V81

Cells, Deoxyribonucleic acid, Mice, Polyoma virus, Synthesis, Virus diseases (animals).

#### 2895-69

SYMPOSIUM: MYCOSIS.

Vet Rec 83(24):633-635

14 Dec 1968 41.8 V641

Animal diseases, Mycosis, Symposia, Veterinary medicine. Summaries of papers and discussions presented to the B.V.A. Congress in Swansea from Sept. 16-20, 1968.

#### 2896-69

EPIDERMAL CHALONE AND MITOTIC CONTROL IN THE VX2 EPIDERMAL TUMOUR.

W S Bullough E B Laurence Nature 220(5163):134-135

12 Oct 1968 472 N21

Animal diseases, Biochemistry, Cancer, Drug therapy, Extracts, Hamsters, Hormones, Inhibitors, Mice, Mitosis, Neoplasms, Skin, Synthesis, Tissues.

#### 2897-69

INACTIVATION OF CANDIDA ALBICANS BY ULTRAVIOLET RADIATION.

D L Busbee A Sarachek

Arch Mikrobiol 64(4):289-314 REF

30 Jan 1969 442.8 AR26

Candida albicans, Deoxyribonucleic acid, Metabolism, Physiology, Ultraviolet rays.

#### 2898-69

SHEEP FOOT ROT CONTROL.

G L Crenshaw B McGowan

U S Livestock Sanit Ass Proc 70:471-475

10 Oct 1966 49.9 UN3R

Foot rot (animals), Livestock, Livestock diseases, Research, Sheep, Veterinary medicine.

#### EQUINE INFECTIOUS ANEMIA.

W J B Ditchield

U S Livestock Sanit Ass Proc 70:219-223 REF 10 Oct 1966 49.9 UN3R

Diagnosis, Equine infectious ancmia, Horses, Infectious diseases, Serological tests, Virus diseases (animals).

# 2900-69

# SALMONELLOSIS.

P R Edwards M M Galton

Advances Vet Sci 11:1-63 REF

1967 41.8 AD9

Animals, Bacterial diseases (animals), Bibliography, Disease control, Disease transmission, Salmonclla, Salmonellosis, Surveys, Taxonomy

The bacterium Salmonella is discussed as to its taxonomy, isolation, occurrence in man and other animals, transmission in food materials, and control.

# 2901-69

HAEMORRHAGIC NEPHRITIS IN EXPERI-MENTAL BOVINE LEPTOSPIROSIS BRATISLAVA.

K L Fennestad T S Olsen C B Petersen Acta Pathol Microbiol Scand 71(2):245-264 REF

1967 448.3 AC8 Cattle, Leptospires, Leptospirosis, Livestock diseases, Nephritis, Scrological tests, Symptomatology, Toxins.

# 2902-69

# EPIZOOTIOLOGY.

D H Ferris

Advances Vet Sci 11:261-320 MAP REF 1967 41.8 AD9

Bibliography, Ecology, Epidemiology, Epizootic diseases, Methodology.

The principles, organization, and experimental design of epizootiologic research are reviewed in depth and an extensive bibliography is included.

#### 2903-69

EFFECTS OF DIETS LOW IN CALCIUM AND/OR PHOSPHORUS IN LAMBS.

A C Field N F Suttle D I Nisbet

Vet Rec 83(24):605

14 Dec 1968 41.8 V641

Animal nutrition, Bones, Calcium, Diet, Phosphorus, Physiology, Sheep. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

#### 2904-69

FEEDING CHLORTETRACYCLINE TO RANGE CATTLE TO ELIMINATE THE CARRIER STATE OF ANAPLASMOSIS.

T E Franklin R W Cook D J Anderson U S Livestock Sanit Ass Proc 70:85-90

10 Oct 1966 49.9 UN3R

Anaplasmosis, Antibiotics, Cattle, Chlortetracycline, Drug therapy, Feeding, Livestock diseases.

ETIOLOGY OF KIDNEY DISEASE IN DOGS AND CATS.

U Freudiger

Sweiz Arch Tierheilk 110(6):275-288 REF

Jun 1968 41.8 SCH9

Animal diseases, Cats, Dogs, Kidneys, Nephritis, Pathogenesis. English, French, and Italian summa-ΓУ

#### 2906-69

THE VIRUS-CAUSED RESPIRATORY DISEASES OF THE CAT. (GE )

U Freudiger

Kleintier-Praxis 13(1):4-9 REF

Feb 1968 41.8 K67

Cats, Climate, Diagnosis, Epidemiology, Feline in-fectious enteritis, Feline pneumonitis, Her-pesviruses, Picornaviruses, Respiratory diseases, Rhinotracheitis, Serological tests, Symptomatology, Virology, Virus diseases (animals).

LUPINOSIS.

M R Gardiner

Advances Vet Sci 11:85-138 REF

1967 41.8 AD9

Alkaloids, Bibliography, Disease control, Jaundice, Live, diseases, Lupine, Pathology, Poisonous plants.

A literature review of the ctiology, pathology and control of lupinosis, a livestock disease resulting from ingestion of the toxic herb, Lupinius, is presented.

# 2908-69

MALARIA IN MAMMALS EXCLUDING MAN. P C C Garnham

Advances Parasitol 5:139-204 REF

1967 436.8 AD9

Bibliography, Disease transmission, Immunity, Life cycle, Malaria, Mammals, Morphology, Pathogenesis, Plasmodium, Taxonomy.

A literature review of the taxonomy, life cycles, morphology, transmission, pathogenesis, immunology and serology of Plasmodia is presented.

SHARED GROUP-SPECIFIC ANTIGEN OF MU-RINE AND FELINE LEUKEMIA VIRUSES. G Geering W D Hardy L J Old E Harven R S

Brodey Virology 36(4):678-680 REF

Dec 1968 448.8 V81 Antigens, Cats, Leukemia, Mice, Rats, Serological tests, Virus diseases (animals).

CLINICAL SIGNS AND PATHOLOGY OF PANCREAS DISEASES OF THE DOG. (GE )

S Geyer B Bibrack T Hanichen Kleintier-Praxis 13(1):17-24 REF

Feb 1968 41.8 K67 Animal diseases, Cirrhosis, Diagnosis, Dogs, Pancreas, Pancreatic cystic fibrosis, Symptomatology. Tables (data).

2911-69

THE EFFECT OF CONDITIONS OF CULTIVA-TION OF THE POLIOMYELITIS VIRUS ON THE FREQUENCY OF MUTATIONS AFFECT-ING THE GUANIDINE CHARACTER. (RUS) U Z Ghendon A T Marchenko

Genetika (5):143-147

1967 OH431.A1G4

Animal genetics, Guanidine, Monkeys, Mutation, Poliomyelitis, Temperature, Tissue culture, Virology, Virus diseases (animals). English summary

2912-69

ABORTIONS IN CATTLE: ISOLATION OF SAL-MONELLA DUBLIN. (POR)

W Giorgi A O Lobad C A Santa Rosa E Franca Sao Paulo Inst Biol Arq 35(4,OCT-DEC):185-188 Dec 1968 442.9 SA6

Abortion, Cattle, Salmonella dublin, Serological tests, Vaccines. English abstract

TOXOPLASMOSIS INFRCTION FROM RABBIT TO MEN. REPORT OF A CASE. (POR)

W Giorgi O Campedelli Filho V do Amaral Sao Paulo Inst Biol Arq 35(2, APR-JUN):87-88 Jun 1968 442.9 SA6

Animal disease transmission, Human diseases, Rabbits, Toxoplasma gondii, Toxoplasmosis. English

2914-69

PATHOGENIC ESCHERICHIA COLI STRAINS PREVALENT IN POULTRY FLOCKS IN ISRAEL.

E D Heller M Perek

Brit Vet J 124(11):509-513 REF

Nov 1968 41.8 V643

Bacterial diseases (animals), Chickens, Escherichia coli, Lesions, Poultry diseases, Serological tests.

THE OUTBREAK OF FOOT-AND-MOUTH DIS-THE OUTBREAK OF FOOT-AND-MOUTH DISEASE IN WORCESTERSHIRE. AN EPIDEMIOLOGICAL STUDY: WITH SPECIAL REFERENCE TO SPREAD OF THE DISEASE BY WIND-CARRIAGE OF THE VIRUS.

R J Henderson

J Hyg 67(1):21-33

Mar 1969 449.8 J82

Epidemiology, Foot-and-mouth disease, Swine, Virus diseases (animals), Wind dispersal.

2916-69

A TREND IN THE PREVALENCE OF BRUCEL-LOSIS IN IOWA SWINE.

S L Hendricks W J Hausler

U.S. Livestock Sanit Ass Proc 70:110-115 MAP 10 Oct 1966 49.9 UN3R

Agglutination test, Brucellosis, Immunochemistry, Livestock diseases, Serological tests, Swine.

EVOLUTIONARY TRENDS IN MAMMALIAN TRYPANOSOMES.

C A Hoare

Advances Parasitol 5:47-91 MAP REF

1967 436.8 AD9

Bibliography, Evolution, Protozoa, Taxonomy, Trypanosoma, Trypanosomatidae.

EPIDEMIOLOGICAL STUDIES ON SAL-MONELLA SENFTENBERG. II. INFECTIONS IN FARM ANIMALS.

M E Hugh-Jones

J Hyg 67(1):89-94 REF

Mar 1969 449.8 J82

Cattle, Epidemiology, Livestock diseases, Poultry, Salmonella senftenberg, Sheep.

STAND-BY SERVICE MAINTAINS CONSTANT VIGILANCE AGAINST ANIMAL DISEASE OUTBREAKS.

W H Hughes

New Zeal J Agr 116(5):35

May 1968 23 N48J

Agricultural legislation, Disease control, Epizootic diseases, Livestock diseases.

ANTIMICROBIAL EVALUATION OF METILYL-3-NITRO-1-NITROSOGUANIDINE.

D E Hunt R F Pittillo Appl Microbiol 16(12):1879-1880

Dec 1968 448.3 AP5

Animal diseases, Antibiotics, Bacteria, Escherichia coli, Fungus diseases (animals), Methyl-3-nitro-1-nitrosoguanidine, 1-, Mice, Staphylococcus aureus.

STUDIES ON E. COLI VACCINES TO PROTECT PIGS AGAINST POSTWEANING COLIFORM INFECTIONS.

P L Ingram

Vet Rec 83(24):606

14 Dec 1968 41.8 V641

Bacteria, Escherichia coli, Gastroenteritis, Livestock diseases, Research, Swine, Vaccines. Gastroenteritis, Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

SALMONELLA AND ARIZONA IN REPTILES AND MAN IN WESTERN AUSTRALIA.

J B Iveson E M Mackay-Scollay V Bamford J Hyg 67(1):135-145 REF

Mar 1969 449.8 J82

Paracolobactrum arizonae, Reptilia, Salmonella, Surveys, Zoogeography.

TOXOPLASMA AND TOXOPLASMOSIS.

L. Jacobs

Advances Parasitol 5:1-45 REF

1967 436.8 AD9

Bibliography, Disease transmission, Electron microscopy, Epidemiology, Physiology, Protozoa, Serological tests, Tissue culture, Toxoplasma gondii, Toxoplasmosis.

Toxoplasma is discussed with respect to its electron microscopy, mechanisms of transmission, serology, epidemiology, pathology, physiology, and therapy.

EPIDEMIOLOGICAL CONSIDERATIONS FOR THE CONTROL OF BOVINE VIRUS DIARR-HEA.

R F Kahrs D S Robson J A Baker U.S. Livestock Sanit Ass Proc 70:145-153

10 Oct 1966 49.9 UN3R

Antibodies, Bovine virus diarrhea virus, Cattle, Epidemiology, Immunology, Livestock diseases, Virus diseases (animals).

2925-69

LASTING INTERRUPTIONS IN EPIZOOTIC ACTIVITY OF NATURAL PLAGUE FOCI AND THEIR POSSIBLE CAUSES. (RUS)

N. I. Kalabukhov

Zool Zhur 48(2):165-178

Feb 1969 410 R92

Animal ecology, Animal vectors, Epizootic diseases, Rodents, Siphonaptera. English abstract

2926-69

VALUE AND INTERPRETATION OF SEROLOGICAL TESTS FOR THE DIAGNOSIS OF CRYPTOCOCCOSIS.

L Kaufman S Blumer

Appl Microbiol 16(12):1907-1912 REF

Dec 1968 448.3 AP5

Agglutination, Animal diseases, Antibodies, Cryptococcosis, Cryptococcus neoformans, Diagnosis. Fluorescent antibody technic, Latex, Serological

2927-69

VENEZUELAN EQUINE ENCEPHALITIS.

R E Kissling R W Chamberlain Advances Vet Sci 11:65-84 REF

1967 41.8 AD9

Disease cont... Pathology, Culicidae, Bibliography, Epidemiology, Insect vectors. Venezuelan equine encephalitis virus, Virus diseases (animals).

A review of Venezuelan Equine Encephalitis including its epidemiology, symptomatology, pathology and control is presented.

CYTOCHEMICAL STUDIES ON THE LEP-TOMONAD FORM OF LEISHMANIA DONOVANI.

T Koyama A Ilardi

Parassitologia 10(1):17-32 REF

Jul 1968 436.8 P212

Biochemistry, Cytology, Histology, Leishmaniasis.

2929-69

HETEROTRANSMISSION OF AVIAN MYELOBLASTOSIS VIRUS TO HAMSTERS. (FR)

F Lacour E Delain G Camus F May-Levin Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):631-634 REF

20 Jan 1969 505 P21

Animal physiology, Antigens, Avian myeloblastosis virus, Hamsters, Immunization.

STUDIES ON THE BLOOD CHEMISTRY OF CATTLE IN A HERD INFECTED WITH JOH-NE'S DISEASE.

A B Larsen K E Kopecky

U.S. Livestock Sanit Ass Proc 70:189-193 REF 10 Oct 1966 49.9 UN3R

Bacteria, Blood, Calcium, Cattle, Chemistry, Johne's disease, Livestock diseases, Magnesium, Phosphorus, Potassium, Research, Serological tests. Sodium.

BOVINE LEUKEMIA: CLINICAL. EPIDEMIOLOGICAL AND EXPERIMENTAL STUDY.

V I Larson

Diss Abstr Sect B 29(3):825B-826B

Sep 1968 Z5055.U49D53

Cattle, Environment, Epidemiology, Hematology, Leukemia, Livestock diseases, Lymphocytosis, Research, Symptomatology.

SHOPE FIBROMA VIRUS GROWTH CURVE IN SUSPENDED TISSUE CULTURE.

P E Lemoine A Karl C E Schwerdt World Health Organ Bull 38(1):127-133 REF 1968 449 9 W892B

Kidneys, Pox-tumor viruses, Rabbit fibroma virus, Rabbits, Tissue culture. French summary.

CHLOROTHIAZIDE, DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.

H L Ley

Fed Regist 34(38):2622-2623

26 Feb 1969 L1.451 Accident prevention, Chlorothiazide, Cirrhosis, Dogs, Dosage, Drug therapy, Drugs, Heart failure, Symptomatology, Veterinary medicine.

DIAGNOSTIC TESTS FOR BRUCELLOSIS. R M MacKenzie

Scot Agr 47(3,SUMMER):115-117

1968 10 SCO82SO

Antibodies, Brucellosis, Culture media, Diagnostic procedures, Guinea pigs, Microscopy, Serological tests. Tissue culture.

2935-69

SALMONELLOSIS IN CALVES.

A P C MacLaren

Scot Agr 46(4,AUTUMN):191-193

1967 10 SCO82SO

Bacterial diseases (animals), Calves, Diagnosis, Disease control, Disease transmission, Salmonella typhimurium, Salmonellosis, Symptomatology

The symptoms, diagnosis, transmission, prevention. and control of salmonellosis in calves are discussed.

MANAGEMENT AND DISEASES OF CAGED BIRDS.

W Marbach M Lindtner

Agr Gaz New S Wales 79(11):690-696

Nov 1968 23 N472

Birds, Chemical control (animal diseases), Deficiency diseases, Drug therapy, Helminths, Psittacosis, Psocoptera, Salmonellosis

The symptomatology and therapeutics of bacterial, helminthic and deficiency diseases and control of external parasites are presented.

CONTROL OF CALF SCOURS IN THE SUCKLER COW HERD.

A O Mathieson

Scot Agr 46(1,WINTER):40-44

1966 10 SCO82SO

Antibiotics, Calves, Colibacillosis, Diagnosis, Drug therapy, Livestock diseases.

The symptomatology and etiology of colibacillosis in suckling calves in scotland are described. Preventative measures consist of sanitary farm practises. The selective use of antibiotics is the recommended therapy.

OBSERVATIONS ON POLYOMA VIRUS FILA-MENTS.

C F T Mattern DeLeva Virology 36(4):683-685

Dec 1968 448.8 V81

Cell nucleus, Deoxyribonucleic acid, Polyoma virus, Virus diseases (animals).

INFLUENZA IN ANIMALS.

J L McQueen J H Steele R Q Robinson Advances Vet Sci 12:285-336 REF

1968 41.8 AD9

Birds, Diagnosis, Disease control, Horses, Influenza, Swine, Taxonomy, Virus diseases (animals).

Research on equine, swine, and avian influenza is reviewed as to its diagnosis, serology, etiology, and control. The classification of the myxovirus and isolation techniques are also included.

DERMAL LESIONS IN AVAIN LEUCOSIS.

D H McWade J N Beasley

U.S. Livestack Sanit Ass Proc 70:607-613

10 Oct 1966 49.9 UN3R

Avian leukosis complex, Avian lymphomatosis, Diagnosis, Poultry, Poultry diseases, Skin, Virus diseases (animals).

HOST-PARASITE RELATIONSHIPS IN BRU-CELLOSIS. I. RESERVOIRS OF INFECTION AND INTERHOST TRANSMISSIBILITY OF THE PARASITE.

M E Meyer

U S Livestock Sanit Ass Prac 70:129-134

10 Oct 1966 49.9 UN3R

Animal diseases, Bacteria, Brucellosis, Livestock, Parasitism, Rodents, Susceptibility, Wildlife.

2942-69

PORCINE POLIOENCEPHALOMYELITIDES.

JHL Mills S W Nielsen

Advances Vet Sci 12:33-104 REF

1968 41.8 AD9

Diagnosis, Disease control, Disease transmission, Epidemiology, Pathology, Swine, Teschen disease, Tissue culture, Vaccines, Virus diseases (animals).

Research on porcine polioencephalomyelitides, Teschen disease, is reviewed with regard to diagno-sis, epidemiology, pathology, scrology, experimen-tal disease transmission, and vaccination.

2943-69

EQUINE INFECTIOUS ANEMIA-A DIAGNOSTIC PROBLEM.

R W Moore H E Redmond D H Lewis U S Livestack Sanit Ass Prac 70:255-260 10 Oct 1966 49.9 UN3R

Antigens, Diagnosis, Equine infectious anemia, Horses, Precipitin test, Virus diseases (animals).

INFECTIOUS KERATOCONJUNCTIVITIS IN SHEEP CAUSED BY MORAXELLA BOVIS. (POR)

G Moreno J A Bottino E N Mos

Sao Paula Inst Bial Arq 35(4,OCT-DEC):181-183

Dec 1968 442 9 SA6

Infectious diseases, Keratoconjunctivitis, Moraxella bovis, Sheep. English abstract

INFECTIOUS KERATOCONJUNCTIVITIS IN CATTLE CAUSED BY NEISSERIA (NEISSERIA OVIS N. SP. LINDQVIST, 1960). (POR)

G Moreno J A Bottino E N Mos R M Yanaguita Sao Paula Inst Bial Arq 35(4,OCT-DEC):173-179 REF

Dec 1968 442.9 SA6

Biochemistry, Cattle, Infectious diseases, Keratoconjunctivitis, Neisseria ovis, Physiology. English abstract

THE DISCOVERY OF TWO SPECIES OF TRICHOMONAS IN FECES OF TWO DOGS, (IT

L Morganti G Ricci Bitti Parassitologia 10(1):11-16 Jul 1968 436.8 P212

Feces, Morphology, pigs, Dogs, Trichomonas. English summary.

2947-69

INFECTIOUS BURSAL DISEASE (GUMBORO).

I M Moulthrop

U S Livestock Sanit Ass Proc 70:438-439

10 Oct 1966 49.9 UN3R

Eggs, Feed, Gumboro disease, Poultry, Poultry diseases, Virus diseases (animals).

ACCREDITED PULLORUM TESTED FLOCK SCHEME HATCHERY SCHEME. Agr Gaz New S Wales 79(10):630-632

Oct 1968 23 N472

Germ-free life, Poultry disease prevention, Poultry hatcheries, Salmonella pullorum.

In order to control Salmonella pullorum in poultry a classification scheme for accrediting hatcherics and a list of accredited hatcheries in New Zealand are presented.

2949.69

THE BIOLOGY OF THE ACANTHOCEPHALA.

W L Nicholas

Advances Parasitol 5:205-246 REF

1967 436.8 AD9

Acanthocephala, Bibliography, Cytology, Embryology, Histochemistry, Histology, Host relationships, Morphology.

A literature review on the embryology, post embryonic development, histology, cytology, histochemistry, host-parasite interactions, and the importance of acanthocophala in medicine is presented.

NOCARDIA ASTEROIDES, CAUSE OF AN ENDEMIC MASTITIS IN THE COW. (FR.) J Nicolet A Repond H Konic H Baumgartner

Sweiz Arch Tierheilk 110(6):289-301

Jun 1968 41.8 SCH9

Dairy cattle, Epidemiology, Lactation, Livestock diseases, Lymph nodes, Mastitis, Metastasis. Nocardia asteroides, Nocardiosis, Serological tests, Symptomatology, Udders. French, English and Italian summary

2951-69

RABIES DIAGNOSIS. COMPARATIVE STUDY ON SUSCEPTIBILITY OF ADULT AND SUCK-LING MICE.

M R Nilsson W Sugay O L Pasqualin S B K

Saa Paulo Inst Biol Arq 35(2,APR-JUN):43-47 REF

Jun 1968 442.9 SA6

Diagnosis, Micc, Rabies, Serological tests.

IN VITRO ABSORPTION OF BOVINE SERUM-ALBUMIN, GAMMAGLOBULIN AND BRUCEL-LA-ANTIGENS BY SPLEEN CELLS. (GE)

H Noltenius W Haas

Naturwissenschaften 55(11):547-548

Nov 1968 474 N213

Absorption, Antigens, Brucella, Cattle, Gamma globulins, Serum albumin, Tissuc culture.

EQUINE INFECTIOUS ANEMIA--THE SECOND TIME AROUND.

S R Nusbaum

U S Livestock Sanit Ass Prac 70:224-237

10 Oct 1966 49.9 UN3R

Drug therapy, Equine infectious anemia, Horses, Precipitin test, Stcroids, Virus discases (animals).

THE DEVELOPMENT OF FELINE CELL LINES FOR THE GROWTH OF FELINE INFECTIOUS ENTERITIS (PANLEUCOPAENIA) VIRUS.

K J O'Reilly A M Whitaker J Hyg 67(1):115-124 REF

Mar 1969 449.8 J82

Cats, Cytology, Feline infectious enteritis, Genetics, Methodology, Tissue culture, Virus dis-Feline infectious enteritis, eases (animals).

I'ME FRACTIONATION OF FOOT-AND-MOUTH DISEASE HYPERIMMUNE SERUM FROM CATTLE BY A COMBINATION OF GEL FILTRATION AND COLUMN ELEC-TROPHORESIS. (GE ) A-f Olechnowitz

A-f Olechnowitz

Riems Isl Friedrich-laeffler Inst Arb 981-987 1967 41.9 R44

Cattle, Electrophoresis, Foot-and-mouth disease, Gels, Immunity, Serum, Virus diseases (animals). Russian and English summaries reprint: Archive for Experimental Veterinary Medicine vol. 20 no. 4,

2956-69

RECENT ADVANCES IN OUR KNOWLEDGE OF PARTURIENT PARESIS WITH PARTICULAR REFERENCE TO THE ROLE OF VITAMIN D IN ITS PREVENTION.

J M Payne

Vet Rec 83(24):610

14 Dec 1968 41.8 V641

Animal nutrition, Calcium, Dairy cattle, Immunity, Livestock diseases, Metabolism, Milk fever, Pare sis, Parturition, Vitamin d. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

SAFETY TESTING HOG CHOLERA LIVE VIRUS MODIFIED VACCINES.

C E Phillips

U S Livestock Sanit Ass Proc 70:302-309

10 Oct 1966 49.9 UN3R

Hog cholera vaccines, Hog cholera virus, Immunization, Swine, Virus diseases (animals).

THE STATUS OF THE STATE-FEDERAL TU-BERCULOSIS ERADICATION PROGRAM.

A F Ranney U S Livestock Sanit Ass Prac 70:194-207 MAP

10 Oct 1966 49.9 UN3R Agricultural regulation, Livestock Mycobacterium bovis, Tuherculosis.

2959-69

NOTES ON PASTEURELLA TULARENSIS ISO-LATED FROM A VOLE, MICROTUS OECONOMUS PALLAS, IN ALASKA. R L Rausch B E Huntley J G Bridgens Can J Microbiol 15(1):47-55 REF

Jan 1969 448.8 C162

Animal adaptation, Animal morphology, Bacterial diseases (animals), Field mice, Isolates, Pasteurella tularensis, Serological tests, Tables (data), Tularemia, Zoogeography.

THE ONOGENIC ACTION OF BOVINE PAPIL-LOMA VIRUS IN HAMPSTERS.

M.G. Robl.

Diss Abstr Sect B 29(3):826B

Sep 1968 Z5055.U49D53

Cattle, Hamsters, Laboratory animals, Neoplasms, Oogenesis, Papilloma, Research, Transplanting, Virus diseases (animals).

2961-69

B.V.A. DISTEMPER PILOT SCHEME.

D N Ryland

Vet Rec 83(24):608-609

14 Dec 1968 41.8 V641

Animal diseases, Caninc distemper, Dogs, Immunization. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2962-69

EQUINE LEPTOSPIROSIS. (POR)

C A Santa Rosa A F P de Castro O C Filho D de Mello

Sao Paulo Inst Biol Arq 35(2,APR-JUN):61-65 REF

Jun 1968 442.9 SA6

Agglutination test, Guinea pigs, Horses, Immunodiagnosis, Leptospirosis, Serum. English abstract

STATUS OF STATE-FEDERAL BRUCELLOSIS ERADICATION PROGRAM.

E A Schilf

U S Livestock Sanit Ass Proc 70:116-128 MAP 10 Oct 1966 49.9 UN3R

Agricultural regulation, Brucellosis, Eradication, Livestock diseases.

ANTIBIOTIC-SENSITIVITY OF S- AND R-FORMS OF SALMONELLA MINNESOTA. (GE)

S Schlecht O Westphal

Naturwissenschaften 55(10):494-495

Oct 1968 474 N213

Ampicillin, Antibiotics, Bacteriostats, Erythromycin, Salmonella, Tetracycline.

2965-69

MYCOSIS IN ANIMALS - SYSTEMIC DISEASE.

1 G Shaw

Vet Rec 83(24):635

14 Dec 1968 41.8 V641

Abortion, Aflatoxicosis, Aspergillosis, Fog fever, Fungus diseases (animals), Mycosis. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

SOME ASPECTS OF CARDIO-VASCULAR DIS-EASE IN THE DOG.

J P Sheridan

Vet Rec 83(24):608

14 Dec 1968 41.8 V641

Animal diseases, Animal physiology, Blood vessels, Diagnosis, Dogs, Heart, Surgery, Therapeutics. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

USE OF ADULT MICE FOR POTENCY TESTING OF INACTIVATED TYPE O FOOT AND MOUTH DISEASE VACCINE,

F F Shevetsov S Kumar A C Goel B S Negi P N Khanna

Cur Sci 38(2):44-45

20 Jan 1969 475 SC123

Foot-and-mouth disease, Immunogenicity, Mice, Vaccines.

2968-69

RENAL PATHOLOGY OF THE FOWL.

W G Siller

Vet Rec 83(24):611

14 Dec 1968 41.8 V641

Glomerulonephritis, Gout, Kidneys, Livestock diseases, Poultry. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2969-69

BRUCELLOSIS IN BRITAIN.

J W Simpson

Scot Agr 47(3,SUMMER):109-115

1968 10 SCO82SO

Aging, Agricultural legislation, Brucella abortus, Bruccllosis, Cattle, Disease control, Serological tests, Vaccines.

2970-69

A PROSPECTUS ON EQUINE INFECTIOUS ANEMIA WITH GUIDELINES.

W L Sippel

U S Livestock Sanit Ass Proc 70:245-254

10 Oct 1966 49.9 UN3R

Agricultural regulation, Equine infectious anemia, Horses, Virus diseases (animals).

2971-69

TRIALS AND TRIBULATIONS OF A STATE-WIDE MASTITIS PROGRAM.

A R Smith

U.S. Livestock Sanit Ass Proc 70:177-180

10 Oct 1966 49.9 UN3R

Agricultural regulation, Livestock diseases, Mas-

A NEW APPROACH TO DEVELOPMENT OF LIVE VACCINE AGAINST TICK-BORNE EN-CEPHALITIS.

A A Smorodintsev A V Dubov V I Ilyenko V G Platonov

J Hyg 67(1):13-20

Mar 1969 449.8 J82

Encephalitis, Insect vectors, Ixodes persulcatus, Ixodes ricinus, Methodology, Viral vaccincs.

THE PROTEINS SPECIFIED BY HERPES SIM-PLEX VIRUS. I. TIME OF SYNTHESIS, TRANSFER INTO NUCLEI, AND PROPERTIES OF PROTEINS MADE IN PRODUCTIVELY IN-FECTED CELLS.

P G Spear B Roizman

Virology 36(4):545-555 REF

Dec 1968 448.8 V81

Cell nucleus, Electrophoresis, Herpes simplex, Human diseases, Proteins, Synthesis, Virus diseases (animals),

ABC OF DOG DISEASES: A GUIDE FOR OWNERS AND BREEDERS, 3RD, EDITION. (GE)

P Teichmann

270P REF LEIPZIG, EAST GERMANY, S.

HIRZEL VERLAG 1968 SF991.T4

Animal breeding, Animal diseases, Animal physiology, Dogs, Pets, Veterinary medicine.

STATUS OF STATE-FEDERAL HOG CHOLERA ERADICATION PROGRAM.

M J Tillery

U.S. Livestock Sanit Ass Proc 70:326-334 MAP 10 Oct 1966 49.9 UN3R

Agricultural regulation, Hog cholera virus, Livestock diseases, Swine, Virus diseases (animals).

2976-69

THE ROLE OF MEAT INSPECTION IN A DIS-EASE REPORTING SYSTEM.

G B Van Ness

U S Livestock Sanit Ass Proc 70:396-402 MAP 10 Oct 1966 49.9 UN3R

Agricultural regulation, Animal diseases, Livestock diseases, Meat, Meat inspection, Mycobacterium avium, Mycobacterium bovis.

2977-69

ESSAY ON PREVENTION OF RABBIT RABIES BY MEANS OF A TISSUE EXTRACT OF THE INTERFERENCE TYPE INJECTED DURING THE INCUBATION PERIOD. (FR.)

J Vieuchange A Fayaz

Acad Sci Compt Rend Ser D Sci Nat 268(6, 1ST SEMESTER):991-993 REF

10 Feb 1969 505 P21

Immunity, Rabbits, Rabies, Tissue culture, Vaccines, Virology.

2978-69

HETEROTYPIC HOG CHOLERA PROTECTION IN SWINE: AN ANALYSIS OF THE RESPONSE.

F J Volenec D E Sheffy J A Baker

U.S. Livestock Sanit Ass Proc 70:295-301 REF

10 Oct 1966 49.9 UN3R

Antibodies, Hog cholera virus, Immunization, Livestock diseases. Swine, Virus diseases (animals)

COMPARATIVE ELECTRON MICROSCOPE AND LIGHT MICROSCOPE STUDIES ON DIF-FERENT DEVELOPMENTAL STAGES OF KLOSSIA HELICINA (COCCIDIA. ADE-LEIDEA). (GE)

B Volkmann

Z Parasitenk 29(2):159-208 REF

1967 442.8 Z33F

Coccidiosis, Cytology, Electron microscopy, Histology, Snails. English abstract

2980-69

THE PATHOGENESIS OF INTERDIGITAL CYST.

J Whitney

Vet Rec 83(24):604

14 Dec 1968 41.8 V641

Animal diseases, Diagnosis, Dogs, Interdigital fibroma, Keratins, Staphylococcus aureus. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2981-69

EAST COAST FEVER.

J K H Wilde

Advances Vet Sci 11:207-259 REF

1967 41.8 AD9

Bibliography, Cattle, Disease transmission, East coast fever, Epizootic diseases, Immunity, Morphology, Pathology, Protozoa, Taxonomy, Theileria parva, Tissue culture.

A literature review concerning East Coast Fever in cattle including etiologic, pathologic, immunologic and therapeutic aspects of infection is presented. The life cycle and means for culturing the disease agent, Theileria parva, is also discussed.

2982-69

BRUCELLOSIS AND THE VETERINARY SUR-

GEON. E Williams

Vet Rec 83(24):610

14 Dec 1968 41.8 V641

Diagnosis, Livestock Brucellosis. diseases. Veterinarians, Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

ISOLATION OF TOXOPLASMA GONDII FROM THE FLESH OF SHEEP, SWINE AND CATTLE.

Acta Pathol Microbiol Scand 71(2):296-306 REF 1967 448.3 AC8

Antibodies, Cattle, Digestion, Dyes, Livestock diseases, Parasitism, Serological tests, Sheep, Surveys, Swine, Toxoplasma gondii, Toxoplasmosis.

2984-69

AN ELECTRON MICROSCOPIC ANALYSIS OF PHAGOCYTES INFECTED WITH BRUCELLA ABORTUS.

M. J. Zanardi

Diss Abstr Sect B 29(3):864B-865B

Sep 1968 Z5055.U49D53

Bacteriology, Brucella abortus, Electron microscopy, Guinea pigs, Parasitism, Phagocytes, Tissue culture, Virulence.

2985-69

SPREADING CHARACTERISTICS OF COM-MERCIAL HOG CHOLERA MODIFIED LIVE VIRUS VACCINES IN SWINE. I. IN VIVO STU-

M R Zinober L O Mott

U S Livestock Sanit Ass Proc 70:310-325 REF 10 Oct 1966 49.9 UN3R

Hog cholera vaccines, Hog cholera virus, Immunization, Livestock discases, Research, Swinc, Virus diseases (animals).

#### **ARTHROPODS**

2986-69

INSECTS AND OTHER ARTHROPODS OF IM-PORTANCE DURING 1967 IN HOUSEHOLDS AND ON LIVESTOCK IN ONTARIO.

W C Allan

Entomol Soc Ontario Proc 98:11-12 MAP 1967 420 ON8

Arthropoda, Household pests, Insects, Livestock, Surveys, Time.

2987-69

A STUDY OF THE DISTRIBUTION OF GLOS-SINA IN ETHIOPIA. (FR)

J Balis P Bergeon

World Health Organ Bull 38(5):809-813 REF 1968 449.9 W892B

Glossina, Insect identification, Livestock diseases, Trypanosomiasis, Zoogcography.

2988-69

A METHOD FOR ACCURATE COUNTING OF BLACKFLY LARVAE (DIPTERA: SIMU-LIIDAE).

L C Curtis

Mosquito News 28(2):238-239

Jun 1968 421 M85

Insect population statistics, Methodology, Sampling (statistics), Simuliidac.

2989-69

MITE PARASITES OF SMALL MAMMALS FROM SCRUB TYPHUS FOCI IN AUSTRALIA.

R Domrow

Australian J Zool 15(4):759-798 MAP REF Aug 1967 410 AU73

Catalogs, Ecology, Host range, Host relationships, Mammals, Parasitic mitcs, Zoogeography.

CONTROL OF LICE IN SHEEP AND CATTLE.

N S M Macleod

Scot Agr 46(4,AUTUMN):201-204

1967 10 SCO82SO

Anoplura, Cattle, Chemical control (insects), Insecticides, Organophosphorus compounds, Sheep.

**CUTEREBRID INFESTATION OF MICROTUS** IN EASTERN NORTH DAKOTA, PENNSYL-VANIA, AND NEW YORK.

F W Maurer J E Skaley

J Mammal 49(4):773-774

Nov 1968 410 J823

Cuterebra, Field mice, Larvac, Mice, Myiasis, Parasitic insects, Zoogcography.

#### **PARASITES**

2992-69

OESOPHAGOSTOMUM LONGICAUDUM GOODEY, 1925, (NEMATODA: CYATHOSTOMIDAE) IN PIG FROM THE STATE OF SAO PAULO, BRAZIL. (POR) V do Amaral A J L Develey

Sao Paulo Inst Biol Arq 35(2,APR-JUN):83-85

Jun 1968 442.9 SA6

Oesophagostomiasis, Oesophagostomum longicaudum, Swine. English abstract

DEMODECTIC PARASITES IN LIVESTOCK.

D W Baker W F Fisher

U.S. Livestock Sanit Ass Proc 70:409-416 REF 10 Oct 1966 49.9 UN3R

Acariasis, Demodex, Livestock diseases, Nematodes. Parasitism, Rhabditis, Verminous dermatitis.

2994-69

PHARMACODYNAMIC PROPERTIES ON NEW ANTHELMINTICS.

P Eyre

Vet Rec 83(24):605

14 Dec 1968 41.8 V641

Anthelmintics, Fascioliasis, Livestock diseases, Nematodiasis, Parasitism, Pharmacology, Properties, Taeniasis. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2995-69

TRICHINAE IN GARBAGE FED SWINE.

J C Jefferies V Beal T R Murtishaw W J

Zimmermann

U S Livestock Sanit Ass Proc 70:349-357 MAP 10 Oct 1966 49.9 UN3R

Garbage, Livestock diseases, Parasitism, Swine, Trichinae, Trichinosis.

HOST RESISTANCE IN THE CONTROL OF COCCIDIAL INFECTIONS.

L P Joyner

Vet Rec 83(24):612

14 Dec 1968 41.8 V641

Chemicals, Coccidiosis, Immunity, Livestock diseases, Parasitism, Poultry, Resistance. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

THE LIFE HISTORY OF COOPERIA PECTINATA RANSOM.

R K Kcith

Australian J Zool 15(4):739-744 REF

Aug 1967 410 AU73

Calves, Cooperia, Eggs, Larvac, Life cycle, Nematode morphology, Parasitic nematodes.

The life history of the nematode, Cooperia pectinata, a cattle parasite in Australia is discussed with observations on the morphology of its eggs and larvac.

THE ULTRASTRUCTURE OF THE ALIMENTARY TRACT OF THE SKIN-PENETRATING LARVA OF NIPPOSTRONGYLUS BRASILIEN-SIS (NEMATODA).

D L Lcc

J Zool 154(1):9-18 REF

Jan 1968 410.9 L84P

Electron microscopy, Gastrointestinal system, Histology, Larvac, Nematode morphology, Nippostrongylus brasiliensis, Ultrastructure.

2999-69

STOMACH WORM DISEASE IN YOUNG CAT-

A P C MacLaren

Scot Agr 47(1,WINTER):32-34

1967 10 SCO82SO

Cattle, Disease control, Life cycle, Livestock diseases, Organophosphorus compounds, Ostertagia ostertagi, Parasites, Symptomatology.

Cattle are parasitized by Ostertagia ostertagi which they pick up while grazing in infested pastures. The life cycle, symptoms, prevention, and treatments are discussed.

SPRING RISE PHENOMENON IN OVINE HEL-MINTHIASIS II. IN STABLED EWES EXPERI-MENTALLY INFECTED WITH HAEMONCHUS CONTORTUS.

B G Procter H C Gibbs

Exp Parasitol 23(3):323-330 REF

Dec 1968 436.8 EX7

Diagnosis, Haemonchus contortus, Pregnancy,

3001-69

SOME PARASITES FROM THE CEYLON ELEPHANT (ELEPHAS MAXIMUS).

P Seneviratna

Ceylon Vet J 16(1/2, MAR-JUN):23

1968 41.8 C33

Animal diseases, Elephants, Helminths, Parasites, Zoogeography.

3002-69 LIVER FLUKE IN THE NORTH OF SCOT-LAND.

P L. Shanks Scot Agr 47(3,SUMMER):159-160

1968 10 SCO82SO

Cattle, Drug therapy, Fasciola, Pest control, Sheep,

Liverfluke damage to cattle and sheep in Scotland and methods of eradicating both the fluke itself and its snail host are discussed.

THE POST-EMBRYONIC DEVELOPMENTAL STAGES OF CESTODES.

M Voge

Advances Parasitol 5:247-297 REF

1967 436.8 AD9

Animal diseases, Cestoda, Insects, Mites, Physiology. Includes animal diseases; insects and mites as intermediate hosts.

3004-69

THE POST-EMBRYONIC DEVELOPMENTAL STAGES OF CESTODES.

Advances Parasitol 5:247-297 REF

1967 436.8 AD9

Asexual reproduction, Bibliography, Cestoda, Development, Histochemistry, Host relationships, Morphology, Tissue culture.

A literature review of the life historics, structure, histochemistry, host relationships, and in vitro development of Cestoda is presented.

# COMMODITY PROTECTION

# MICROBIAL CONTAMINATION

3005-69

SCREENING OF FEED COMPONENTS FOR SALMONELLA WITH POLYVALENT H AG-GLUTINATION.

J A Barkate

Appl Microbiol 16(12):1872-1874 REF

Dec 1968 448.3 AP5

Agglutination, Feed, Food co Proteins, Salmonella, Serological tests. Food contamination,

J Payton

THE ROLE OF MEAT INSPECTION IN PUBLIC HEALTH.

U.S. Livestock Sanit Ass Proc 70:376-395 REF 10 Oct 1966 49.9 UN3R Agricultural regulation, Bacteria, Food contamina-

tion, Meat, Meat inspection, Public health.

EXPERIENCES WITH CULTURE MEDIA FOR SELECTIVE MICROBIOLOGICAL ANALYSIS OF MEAT PRODUCTS. (GE )

G Reuter

Arch Lebensmittelhyg 19(4):84-89 REF

Apr 1968 41.8 L49

Bacteria, Culture media, Food sanitation, Meat, Microhiology, Tables (data).

3008-69

THE BEHAVIOR OF SOME HUMAN-PATHOGENIC GERMS AND BACTERIAL TOX-INS IN FOOD AND THEIR DESTRUCTION THROUGH HEAT TREATMENTS OF THE FOOD PRODUCTS. I. SALMONELLA. (GE) D Streichan

Arch Lebensmittelling 19(4):89-93 REF

Apr 1968 41.8 L49

Food, Food contamination, Fruit, Heat treatment, Human diseases, Meat, Milk, Oysters, Poultry products, Salmonella, Tobaeco, Toxins, Vegetables.

# **ENVIRONMENTAL** CONTAMINATION

3009-69

ON THE DISTRIBUTION OF PEST CONTROL AGENTS, (GE)

H Maier-Bode

Naturwissenschaften 55(10):470-473 REF

Oet 1968 474 N213

Adipose tissue (animals), Chlorinated hydrocarbons, Dieldrin, DDT, Endosulfan, Insecticide residues, Organophosphorus compounds, Parathion, Soil contamination, Surveys.

A survey is made of pesticide residues found in soil, animal and plant tissues, and water. The degradation of organophosphorous compounds and ehlorinated hydrocarbons as they pass through various ecological systems are discussed.

# RESIDUES

3010-69

EFFECTS OF SOIL MICROORGANISMS AND SOIL PROPERTIES OF THE DISSIPATION OF SELECTED PESTICIDES.

D A Addison

Diss Abstr Sect B 29(3):844B Sep 1968 Z5055.U49D53

Pesticides, Soil bacteria, Soil fungi, Soil mieroorganisms, Soil properties.

DDT RESIDUES AND METABOLITES IN CANADIAN ATLANTIC COAST FISH.

J R Duffy D O'Connell

Can Fish Res Board J 25(1):189-195 R5F

Jan 1968 442.9 C16J

Chlorinated hydroearbons, Chromatography, DDT, Fish, Insecticide residues, Metabolites, Sal-

Tissues and organs of salmon, brook trout and mackerel were analyzed for DDT, DDD, DDE and other metabolites.

PESTICIDE RESIDUE IN FRESHWATER FISH OILS AND MEALS.

L C Dugal

Can Fish Res Board J 25(1):169-172

Jan 1968 442.9 C16J

Animals, Biological assay, Chlorinated hydrocarbons, Chromatography, Dieldrin, DDT, Feed, Fish meal, Heptachlor, Insecticide residues.

The level of pesticide residues in four freshwater fish used for animal foods was found to be at a satisfactory level with the exception of oil from the Lake Michigan alewife.

3013-69

INSECTICIDE MIXTURE. NOTICE OF EXTEN-SION OF TEMPORARY TOLERANCE.

R E Duggan

Fed Regist 34(38):2624

26 Feb 1969 L1.451

Corn, Feed, Forage plants, Insecticide residues, Insecticides, Tolerances, Trimethylphenyl methylcar-bamate, 2,3,5-.

NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

R E Duggan

Fed Regist 34(48):5128 12 Mar 1969 L1.451

Agricultural products, Chemicals, Chloro-1-(2,4,5triehlorophenyl)vinyl dimethyl phosphate, 2-, Chromatography, Corn, Forage plants, Insecticide residues, Pesticides, Toleranees.

TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODI-TIES. ENDOSULFAN.

R E Duggan

Fed Regist 34(48):5100-5101

12 Mar 1969 L1.451

Agricultural products, Chemicals, Endosulfan, Fruit, Pesticide residues, Pesticides, Tolerances,

3016-69

NOTICE OF FILING OF PETITION REGARD-ING PESTICIDE CHEMICALS.

R E Duggan

Fed Regist 34(44):4899

06 Mar 1969 L1.451

Cattle, Chemieals, Chloro-1-(2,4,5-triehlorophen-yl)vinyl dimethyl phosphate, 2-, Fats, Insecticide residues, Meat, Milk, Pesticides, Regulation (pesti-

3017-69

DRUG RESIDUES, SYNERGISM AND ANTAGONISM.

G T Edds

U S Livestock Sanit Ass Proc 70:421-426 REF 10 Oct 1966 49.9 UN3R

Aspergillus flavus, Drugs, Fungi, Insecticides, Pestieide residues, Steroids, Synergism, Toxicolo-

BIOLOGICAL METHODS FOR THE DETEC-TION OF PESTICIDE RESIDUES. (IT

S Foschi A Cesari E Olmo Giornate Fitopatol 91-104 REF

26 Mar 1967 SB599.G5 Biology, Fungi, Inseets, Methodology, Pesticide residues, Protozoa, Statistical methods.

The method uses the following animals and fungi: Drosophila melanogaster, Tribolium confusum, T. eastaneum, Calandra oryzac, Daphnia magna, D. pulex, Artemia salina, Tetrahymcna pyriformis, Aspergillus niger, Alternaria solani, A. tenuis, Botrytis cinerea, Rhodotorula glutinis, Saccharomyces eerevisiae and Torulopsis puleherimma.

A STUDY OF PYRAZON AND ITS HERBICIDAL RESIDUES IN THE SOIL.

H M Hepworth

Diss Abstr Sect B 29(3):899B

Sep 1968 Z5055.U49D53

Beans, Grain, Growth factors, Herbieide residues, Humidity, Mustard, Pyrazon, Soil temperature, Soils, Sugar beets, Toxicology.

RESIDUES OF MALATHION ON INDIAN RAPE SEED (BRASSICA CAMPESTRIS 6. VAR. DICHOTOMA WATT).

V S Kavadia R Lal

Indian J Agr Sci 38(4):708-713

Aug 1968 22 AG831

Biological assay, Bird rape, Chemical analysis, Chemical control (insects), Drosophila melanogaster, Insecticide residues, Malathion, Statistical analysis.

QUALITATIVE AND QUANTITATIVE DETER-MINATION OF EKATIN RESIDUES AND ANALYTICAL RESULTS OBTAINED IN VARI-OUS CULTURES. (IT)

B La Roche Giornate Fitopatol 87-90 26 Mar 1967 SB599.G5

Aearieides, Aphididae, Chemical analysis, Chromatography, Degradation, Ekatin, Food plants, Insecticide residues, Metabolites, Toxicity.

REPRODUCTION IN BROOK TROUT (SAL-VELINUS FONTINALIS) FED SUBLETHAL CONCENTRATIONS OF DDT.

K J Maeek

Can Fish Res Board J 25(9):1787-1796

Sep 1968 442.9 C16J

DDT, Fish, Insecticide residues, Mortality, Reproduction.

3023-69

INVESTIGATION INTO HERBICIDE RESIDUES. (GE)

H Maier-Bode

Berlin Biol Bundesaust Land-forstwirtsch Mitt (121):203-209

Feb 1967 410.9 G31M

Chemical analysis, Diquat, Herbicide residues, Herbicides, Plant analysis, Potatocs, Rye, Surveys. English abstract

DRUG RESIDUES AND THE VETERINARY PROFESSION.

P C Manley

U S Livestock Sanit Ass Proc 70:434-435

10 Oct 1966 49.9 UN3R

Antibioties, Drugs, Food, Humans, Pesticides, Residues, Vcterinary medicine.

COMMERCIAL ASPECTS OF PESTICIDE RESIDUES IN FOODSTUFF, (IT

G Mannelli

Giornate Fitopatol 45-48

26 Mar 1967 SB599.G5

Agricultural products, Chlorinated hydroearbons, Dieldrin, DDT, Food contamination, Forcign trade, Organophosphorus compounds, Parathion, Pesticide residues, Tolerances, Vegetables.

3026-69

THE DISTRIBUTION, EXCRETION, AND METABOLITES OF MALEIC HYDRAZIDE IN RATS AND A METHOD FOR THE DETECTION OF METALDEHYDE IN PLANTS.

D L Mays

Diss Abstr Sect B 29(3):915B

Sep 1968 Z5055, U49D53

Animal metabolism, Carbon, Chromatography, Excreta, Lettuce, Malcic hydrazide, Metabolites, Metaldehyde, Pesticide residues, Radioactive tracers. Rats.

WOULD YOU BELIEVE.

R C Meier

Midwest Reg Turf Conf Proc 1968 MEETING:26 04 Mar 1968 60.19 M58

Accident prevention, Chemicals, Equipment, Fungicides, Herbicides, Insecticides, Turf.

A CHECK OF THE RESISTANCE TO WASII-ING OF VARIOUS PESTICIDES ON APPLES AND GRAPES. (IT)

E Olmo B Guiati R Stanzani

Giornate Fitopatol 59-65

26 Mar 1967 SB599.G5

Apples, Captan, Chlorinated hydrocarbons, Detergents, Grapes, Irrigation, Mevinphos, Organophosphorus compounds, Parathion, Pestieide residues, Resistance, Tables (data), Water.

3029-69

GAS CHROMATOGRAPHIC STUDY ON THE ENVIRONMENTAL AND FOODSTUFF POLLU-TION THROUGH RESIDUES OF SYNTHETIC ORGANO-CHLORINATED INSECTICIDES. (IT

B Paeeagnella L Prati G Cavazzini Giornate Fitopatol 67-77 REF 26 Mar 1967 SB599.G5

Chlorine, Chromatography, Crops, Environment, Insecticide residues, Milk, Organic compounds, Water pollution. Residues of 10 insecticides were investigated among them were DDT, BHC, lindanc, dieldrin and heptachlor.

A KINETIC ANALYSIS OF HERBICIDE DEGRADATION IN SOIL.

R L Zimdahl

Diss Abstr Sect B 29(3):849B Sep 1968 Z5055.U49D53

Degradation, Herbicide residues, Herbicides, Kinetics, Loam, Soil analysis.

TOXICOLOGY

THE ROLE OF INTERFACIAL WATER IN THE TOLERANCE OF ROOTS TO TOXIC SOLU-

E E Albregts

Diss Abstr Sect B 29(3):839B-840B

Scp 1968 Z5055.U49D53

Corn, Growth factors, Plant physiology, Roots, Tolerances, Toxicology, Water.

3032-69 EFFECT OF SUBLETHAL DDT ON THE LATERAL LINE OF BROOK TROUT, SALVELINUS FONTINALIS.

J M Anderson

Can Fish Res Board J 25(12):2677-2682

Dec 1968 442.9 C16J

Animal physiology, DDT, Mortality, Nervous system, Temperature, Toxicology, Trout.

DDT makes the lateral line nerve of the trout, Salvelinus fontinalis, hypersensitive to low frequency pressure waves and cold temperatures.

3033-69

EFFECT OF PH AND IONIC FORCE ON THE REACTION RATE OF ORGANOPHOSPHORUS COMPOUNDS WITH SERUM-DERIVED COMPOUNDS W CHOLINESTERASE.

A P Brestkin 1 L Brik

Biokhimiya 32(5,PT 2,SEP-OCT):833-838 REF Oct 1967 385 B523

Cholinesterases, Horses, Hydrogen-ion concentra-tion, Organic compounds, Phosphorus compounds, Scrum, Toxicology. Russian journal- vol. 32(5):1004-1010, Sep-Oct, 1967

PROCEDURE FOR AERIAL SPRAYING OF SERRATED TUSSOCK.

M H Campbell

Agr Gaz New S Wales 79(1):16-20

Jan 1968 23 N472

Aerial weed control, Chemical control (weeds), DPA, Methodology, Nassella trichotoma, Pasture management, Poisonous plants, Spraying.

Serrated tussock (Nassella trichotoma) is a plant toxic to livestock, methods of its erradication are discussed, especially acrial spraying with DPA.

3035-69

NITRATE-NITRITE INTOXICATION SWINE.

T M Curtin W T London

U.S. Livestock Sanit Ass Proc 70:339-348 REF 10 Oct 1966 49.9 UN3R

Livestock diseases, Nitrates, Nitrites, Poisoning, Swine, Toxicology.

3036-69

FIRST AID IN CASES OF ACUTE POISONING WITH AGRICULTURAL PESTICIDES. (IT ) F Fini

Giornate Fitopatol 35-43

26 Mar 1967 SB599.G5

Accident prevention, Medicine, Poisoning, Symptomatology, Therapy. Contains listing of active ingredients of pesticides, symptoms of poisoning and indicated therapy.

THE METABOLISM OF PIPERONYL BUTOXIDE IN THE RAT WITH C14 IN THE METHYLENEDIOXY OR ALPHA-METHYLENE GROUP.

L Fishbein H L Falk J Fawkes S Jordan B Corbctt

J Chromatography 41(1):61-79

22 Apr 1969 475 J824

Animal metabolism, Carbon-14, Chromatography, Insecticide syncrgists, Piperonyl butoxide, Radioactive tracers, Rats.

3038-69

DEGRADATION OF DDT IN ATLANTIC SAL-MON (SALMO SALAR).

G L Greer U Paim

Can Fish Res Board J 25(11):2321-2326 REF Nov 1968 442.9 C16J

Adsorption, Chemical analysis, Chromatography, DDT, Metabolism, Salmon.

DDT absorbed by Atlantic salmon (Salmo salar) was changed metabolically into the less toxic substances DDE and TDE within nine hours, as shown by thin-layer chromatography.

WATER CONTAINING ALGAE MAY BE DAN-GEROUS TO STOCK.

J S Healey

Agr Gaz New S Wales 79(3):157-159

Mar 1968 23 N472

Algae, Anacystis cyanea, Animal physiology, Aquatic plants, Livestock, Poisoning, Water pollution.

Certain strains of algae contain a substance that is quite toxic to animals. Drinking of algae con-taminated water may cause death; dcad algae are more toxic. The symptoms and prevention of this kind of poisoning are discussed.

GROWTH AND RESISTANCE TO STRESS IN BROOK TROUT FED SUBLETHAL LEVELS OF DDT.

K J Macek

Can Fish Res Board J 25(11):2443-2451 REF Nov 1968 442.9 C16J

DDT, Environmental effects, Mating habits, Mortality, Starvation, Stress, Temperature, Toxicity,

Evidence suggests that the mortality of DDT ex posed trout was due to the interaction of DDT residues with a combination of environmental stresses, namely starvation, decreasing water temperature, and possibly the physiological stress associated with the spawning season.

ELECTROCARDIOGRAPHIC ASPECTS OF EX-PERIMENTAL POISONING. (IT) METHYL-PARATHION

E Orlando G B Raffi

Giornate Fitopatol 29-34 REF

26 Mar 1967 SB599.G5

Animal adaptation, Animal physiology, Electrocar-diograms, Laboratory animals, Methyl parathion, Poisoning, Symptomatology.

ASPERTOXIN, A HYDROXY DERIVATIVE OF O-METHYLSTERIGMATOCYSTIN FROM AFLATOXIN-PRODUCING CULTURES OF ASPERGILLUS FLAVUS.

J V Rodricks E Lustig A D Campbell L Stoloff Tetrahedron Lett (25):2975-2978

May 1968 385 T29

Aflatoxin, Aspergillus flavus, Aspertoxin, Sterigmatocystins.

POSSIBLE TOXIC EFFECTS OF ACCESSORY SUBSTANCES OF PESTICIDE PRODUCTS. (IT) M Tirelli

Giornate Fitopatol 79-80

26 Mar 1967 SB599.G5

Aerosols, Botrytis cincrea, Chlorine, Copper, Fungicides, Oxides, Pesticides, Toxicity, Winc

3044-69

INFLUENCE OF REFRIGERATION ON AFLATOXIN PRODUCTION. (ABSTRACT). M Van Walbeek T Clademenos F S Thatcher Can J Public Health 60(1):34

Jan 1969 449.8 P964

Aflatoxin, Aspergillus flavus, Refrigeration, Temperature, Toxins.

# **PLANT PHYSIOLOGY &** BIOCHEMISTRY

3045-69

HISTONES--ANIMAL AND VEGETABLE.

Nature 220(5168):650

16 Nov 1968 472 N21

Animals, Biochemistry, Deoxyribonucleic acid, Enzymes, Genes, Histones, Vegetables.

3046-69

THE INFLUENCE OF PLANTS ON THE INACTIVATION OF SOIL HERBICIDES FOR EXAMPLE OF SIMAZINE AND ATRAZINE. (GE )

J Alkamper

Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):195-202

Feb 1967 410.9 G31M

Atrazine, Corn, Cover crops, Decomposition, Herbicides, Phytotoxicity, Plant metabolism, Simazine. English abstract

3047-69

A NEW HERBICIDE FOR USE ON CULTIVATED PLANTS. (IT)

G Bernardini

Giornate Fitopatol 493-497

26 Mar 1967 SB599.G5

Beans, Cabbage, Carrots, Cauliflower, Chemical control (weeds), Chlorinated hydrocarbons, Redpeppers (vegctable), Tomatoes, Trifluralin.

3048-69

GIBBERELLIC ACID AND ITS USE IN FRUIT CULTURES, (IT)

B Dal Bianco

Giornate Fitopatol 631-634 REF

26 Mar 1967 SB599.G5

Apples, Fruit culture, Gibberellic acid, Peaches, Plant regulators.

3049-69

CHLOROPLAST RIBOSOMES: STEREOSPECIFICITY OF INHIBITION BY CHLORAMPHENICOL.

R J Ellis

Science 163(3866):477-478 REF

31 Jan 1969 470 SCI2

Bacteria, Biochemistry, Chloramphenicol, Chloroplasts, Plant physiology, Ribosomes, Tobacco.

3050-69

TESTS CHLOROETHYL)TRIMETHYLAMMONIUM CHLORIDE ON VARIETIES OF HARD WHEAT. P Grignac A Salis

Phytoma 20(199):15-20

Jun 1968 464.8 P563

Chloroethyl)trimethylammonium chloride, (2-, Crop varieties, Dosage, Nitrogen, Plant physiology, Plant regulators, Research, Wheat.

ETHYLENE: A FACTOR IN DEFOLIATION INDUCED BY AUXINS.

M Hallaway D J Osborne Science 163(3871):1067-1068 REF

07 Mar 1969 470 SCI2 Aerial spraying, D, 2,4-, Defoliation, Ethylene, Plant physiology, Plant regulators, T, 2,4.5-.

FACTORS INFLUENCING EXPRESSION OF OXIDANT DAMAGE TO PLANTS.

W W Heck

Annu Rev Phytopathol 6:165-188 REF 1968 464.8 AN72

Air pollution, Photochemistry, Phytotoxicity, Plant biochemistry, Plant injuries, Plant physiology.

STORAGE EFFECTS ON FORCING RESPONSE AND GIBBERELLIN LEVELS IN EASTER LI-LIES.

L L Hill

Diss Abstr Sect B 29(3):832B

Sep 1968 Z5055.U49D53

Biological assay, Gibberellins, Lilium longiflorum, Plant metabolism, Plant physiology, Storage, Temperature.

MOTHER-DAUGHTER FROND INTERACTION IN THE COURSE OF GROWTH OF IN THE COURSE OF GROWTH OF DUCKWEED (LEMNA MINOR L.) COLONY, (RUS)

V B Kasinov

Bot Zhur (moscow) 53(11):1558-1568

Nov 1968 451 R923

Lemna minor, Plant ecology, Plant physiology. English abstract

3055-69

THE STEROL ESTERS OF MAIZE SEEDLINGS.

R J Kemp E I Mercer

Biochem J 110(1):111-118 REF

Nov 1968 382 B52

Biochemistry, Chromatography, Corn, Esters, Extracts, Lipids, Plant physiology, Residues, Scutellum, Seed germination, Seedlings, Sterols, Tables (data). Tissue culture.

STUDIES ON THE STEROLS AND STEROL ESTERS OF THE INTRACELLULAR ORGANELLES OF MAIZE SHOOTS.

R J Kemp E 1 Mercer

Biochem J 110(1):119-125

Nov 1968 382 B52

Biochemistry, Cell nucleus, Cells, Chloroplasts, Cholesterol, Corn, Esters, Microsomes, Mitochondria, Sterols, Tables (data), Tissues.

LOSS OF GIBBERELLINS BY LEACHING FOLIAGE OF PRIN-FROM STEMS AND FOLIAGI CHRYSANTHEMUM MORIFOLIUM CESS ANNE'

P C Kozel H B Tukey

Amer J Bot 55(10,NOV-DEC):1184-1189 REF 1968 450 AM36

Biological Chromatography, Chrysanthemum morifolium, Extraction, Fractionation, Gibberellins, Metabolites, Photoperiodism, Plant nutrition, Plant physiology, Rainfall, Silica gels, Soil leaching.

PHYSIOLOGICALLY ACTIVE SUBSTANCE IN CAPSELLA BURSAPASTORIS.

K Kuroda K Takagi

Nature 220(5168):707-708

16 Nov 1968 472 N21

Alcohols, Biochemistry, Capsella hursa-pastoris, Drug plants, Peptides, Pharmacology, Plant extracts, Plant physiology.

3059-69

PHENETHYL ALCOHOL AND TRYPTOPHOL: AUTOANTIBIOTICS PRODUCED BY THE FUNGUS CANDIDA ALBICANS.

BT Lingappa M Prasad Y Lingappa DF Hunt K Biemann

Science 163(3863):192-194

10 Jan 1969 470 SCI2

Alcohols, Antibiotics, Candida alhicans, Chemicals, Fungus cultures, Plant growth inhibitors, Spectrometry.

3060-69

LOCALIZATION OF DEHYDROGENASES IN THE NODULAR TISSUES OF LEGUMINOUS

Y V Peive B A Yagodin G A Ovcharenko G F Khailova

Acad Sci U Ssr Dokl Bot Sci 179(MAR-APR):58-60 RFF

1968 511 P444AE

Beans, Dehydrogenases, Field crops, Legumes, Nitrogen-fixing bacteria, Plant biochemistry, Rhizobium, Symbiosis, Tissues. Translated from

THE EFFECT OF ANTI-FUNGAL ANTIBIOTICS ON THE NODULATION OF TRIFOLIUM SUBTERRANEUM AND THE ESTIMATION OF RIHZOBIUM TRIFOLII POPULATIONS.

A C Robinson

Australian J Exp Agr Anim Husb 8(32):327-331

Jun 1968 23 AU792

Antibiotics, Cycloheximide, Fungicides, Griseofulvin, Mycostatin, Nodules (plants), Plant physiology, Rhizobium trifolii, Subterranean clover.

TRANSLOCATION PATTERNS OF SELECTED HERBICIDES AND INFLUENCE OF FENAC ON SOME PHYSIOLOGICAL AND HISTOLOGI-CAL CHANGES IN MUGWORT.

A B Rogerson

Diss Abstr Sect B 29(3):833B

Sep 1968 Z5055.U49D53

Artemisia vulgaris, Biochemistry, Fenac, Greenhouse culture, Herbicides, Plant histology, Plant physiology, Plant translocation, Radioactive

METAMORPHOSIS IN ONTOGENESIS OF PARASITIC ANGIOSPERMOUS PLANTS. E S Terekhin

Acad Sci U Ssr Dokl Bot Sci 178(JAN-FEB):20-

1968 511 P444AE

Angiospermae, Metamorphosis, Parasitism, Plant physiology, Plants. Translated from Russian.

SEASONAL CHANGES IN GIBBERELLIN-LIKE COMPOUNDS IN OVARIES AND YOUNG FRUITS OF NAVEL ORANGE.

W J Wiltbank

Diss Abstr Sect B 29(3):820B

Sep 1968 Z5055.U49D53

Abscission, Biochemistry, Climate, Gibberellins, Indoleacetic acid, Oranges, Ovaries, Plant metabol-Plant physiology, Radioactive tracers, ism. Weather.

3065-69

THE EFFECTS OF TREATMENTS AGAINST OSTRINIA (PYRAUSTA) NUBILALIS HB. ON THE PRODUCTION OF HYBRID CORN. (IT )

S Zangheri L Masutti Giornate Fitopatol 345-352

26 Mar 1967 SB599.G5

Chemical control (insects), Chlorinated hydrocarbons, Corn, Crop varieties, Crop yields, DDT, Ostrinia nubilalis.

# **CHEMISTRY**

3066-69

A NOVEL METHOXYLATION DURING OXIDATION OF SIMPLE DIHYDROPYRIMIDO (5,4-E)-AS-TRIAZINES.

M E C Biffin D J Brown

Tetrahedron Lett (21):2503-2506

Apr 1968 385 T29

Antibiotics, Chemical reactions, Defoliants, Triazines

THE UTILIZATION OF THE IN VITRO CHOLINESTERASIS REACTION FOR THE IDENTIFICATION AND SEPARATION OF INSECTICIDE RESIDUES. (IT)

A Cesari E Olmo B Guiati Giornate Fitopatol 129-132

26 Mar 1967 SB599.G5

Azinphosmethyl, Chemical analysis, Chemical reactions, Cholinesterases, Chromatography, In vitro, Insecticide residues, Mevinphos, Parathion.

ABSORBTION AND DEGRADATION ZINEB, (IT)

A A Del Re P Fontana Giornate Fitopatol 287-290 26 Mar 1967 SB599.G5

Absorption, Degradation, DMSO, Solvents, Thiocarbamates, Zineb.

GIBBERELLIN A24, AN ALDEHYDIC GIB-BERELLIN FROM GIBBERELLA FUJIKUROI. D M Harrison J MacMillan R H B Galt

Tetrahedron Lett (27):3137-3139 May 1968 385 T29

Aldehydes, Chromatography, Gibberella fujikuroi, Gibberellins, Lupinus luteus

3070-69

THE PISCICIDAL CONSTITUENTS CALOPHYLLUM INOPHYLLUM LINN. OF K Kawazu H Ohigashi T Mitsui

Tetrahedron Lett (19):2383-2385

Mar 1968 385 T29

Biological assay, Calophyllum inophyllum, Chromatography, Fish poisons, Leaves, Plant extracts.

STRUCTURE OF LEMMASTERONE, A NOVEL C29 INSECT-MOULTING SUBSTANCE FROM LEMMAPHYLLUM MICROPHYLLUM.

T Takemoto Y Hikino T Arai H Hikino

Tetrahedron Lett (37):4061-4064

Jul 1968 385 T29

Hormones, Lemmaphyllum microphyllum, Lemmasterone, Mass spectra, Molting (insects). Protein synthesis, Sarcophaga, Steroids.

3072-69

THE EFFECT OF THE ASSOCIATION OF OR-GANIC MATERIAL WITH CLAYS ON PARATHION AND DDT ADSORPTION.

W G Wang

Diss Abstr Sect B 29(3):904B-905B

Sep 1968 Z5055.U49D53

Adsorption, Clay soils, DDT, Parathion, Surface chemistry, Water.

#### **ENGINEERING**

3073-69 COMPARATIVE TESTS AMONG VARIOUS MACHINES USED FOR PEST CONTROL IN FRUIT ORCHARDS, (IT)

A Cesari F Donati S Foschi A Ugolini Giornate Fitopatol 569-592 REF 26 Mar 1967 SB599.G5

Costs, Dusting equipment, Equipment, Fumigation, Fungi, Insect pests, Mist blowers, Nematodes.

3074-69

AERIAL ACTIVITY IN ITALIAN AGRICUL-TURE IN THE PERIOD FROM 1963 TO 1966.

G Costantino

Giornate Fitopatol 593-609 REF

26 Mar 1967 SB599.G5

Aerial spraying, Aircraft, Chemical control (pests). Helicopters.

3075-69

MECHANICAL MEANS FOR WEED CONTROL IN RICE FIELDS. (IT)

A Finassi

Giornate Fitopatol 465-474

26 Mar 1967 SB599.G5

Aerial spraying, Carbamates, Chemical control (weeds), Propanil, Rice, Spraying equipment, Urea compounds.

THE SOUTH COOK COUNTY MOSQUITO ABATEMENT DISTRICT RIGHT HAND DRIVE IN SERVICE.

B E Johns

Mosquito News 28(2):237-238

Jun 1968 421 M85

Chemical control (insects), Culicidae, Methodology, Spraying equipment.

AN AUTOMATIC SPRAYING APPARATUS FOR LABORATORY EXPERIMENTS. (GE

F Kersting

Berlin Biol Bundesanst Land-forstwirtsch Mitt

(121):285-288

Feb 1967 410.9 G31M

Herbicide application, Laboratory equipment, Spraying equipment. English abstract

#### **INDUSTRY**

3078-69

THE CAMPAIGN OF THE NATIONAL SOCIETY FOR THE PREVENTION OF AC-CIDENTS AGAINST THE USE OF PESTICIDES, WITH PARTICULAR REFERENCE TO THE EMILIA-ROMAGNA REGION. (IT) A Rimondi

Giornate Fitopatol 141-149 MAP 26 Mar 1967 SB599.G5 Accident prevention, Chemical control (pests), Education, Pesticides, Public health, Societies, Toxicity.

# **ECONOMICS**

3079-69 MODERN HONEY PROCESSING. V A Cook New Zeal J Agr 118(2):51,53,55 Feb 1969 23 N48J Equipment, Food processing, Honey.



ABORTION  The Icucocyte counts of cattle aborting due to Brucella abortus infection compared to leuco-	ACHYRANTHES FAURIEI Absolute configuration of inokosterone, an insect-moulting substance from Achyranthes fau-	AEDES CINEREUS Notes on Alaskan mosquito records. 2528
cyte counts of noninfected cattle calving nor- mally.	riei. 2658	AEDES SOLLICITANS A refinement in aerial applications of paris green
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dublin.	of the desert locust Schistocerea gregaria (For-	AEDES TAENIORHYNCHUS
Mycosis in animals - systemic disease.	skal).  2623 ACRIDIDAE	Role of salts in oviposition site selection by the black salt-marsh mosquito, Acdes tacnior-
ABSCISSION	A new species of the genus Eremippus Uv.	hynchus (Wicdemann).
Influence of feeding, oviposition, and egg and larval development of the boll weevil on abscis-	(Orthoptera, Acrididac) from soutcast Kazakh- stan.	AEDES VEXANS Notes on Alaskan mosquito records.
sion of cotton squares.	A tachinid parasite of Australian grasshoppers.	2528
Seasonal changes in gibberellin-like compounds in ovarics and young fruits of navel orange.	2545 A population study of Phaulacridium vittatum	AERIAL INSECT CONTROL  A refinement in aerial applications of paris green granules.
3064	Sjost. (Acrididae).	2686
ABSORPTION  In vitro absorption of bovine serum-albumin,	Laboratory studies on the locomotor activity of	AERIAL PHOTOGRAPHY Aerial photography for the study of plant dis-
gammaglobulin and Brucella-antigens by spleen cells.	Coryphosima stenoptera and other west African Acrididae (Insecta: Orthoptera).	cases. 2715
2952	2637	AERIAL SPRAYING
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tera: Pteromalidae).	ADELPHOCORIS LINEOLATUS	from 1963 to 1966.
ACANTHOCEPHALA .	The structure, function and imaginal develop- ment of the female inner reproductive organs of	Mechanical means for weed control in rice fields. 3075
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Demodectic parasites in livestock.	ADIPOSE TISSUE (ANIMALS)	AEROSOLS
ACARICIDES  A new active acaricide substance.	On the distribution of pest control agents. 3009	Possible toxic effects of accessory substances of pesticide products.
2661	ADSORPTION Degradation of DDT in Atlantic salmon (Salmo	3043 AFLATOXICOSIS
The current importance of plant protection.	salar).	Mycosis in animals - systemic disease.
Qualitative and quantitative determination of Ekatin residues and analytical results obtained in various cultures.	The effect of the association of organic material with clays on parathion and DDT adsorption.	AFLATOXIN Aspertoxin, a hydroxy derivative of O-methyl-
3021	ADULTS 3072	sterigmatocystin from aflatoxin-producing cul- tures of Aspergillus flavus.
ACARINA Microarthropods from two Quebec woodland	Numerical classification of the Canadian species	3042
humus forms. III. The Sarcoptiformes (Acarina). 2508	of the genus Aedes (Diptera: Culicidae).	Influence of refrigeration on aflatoxin production. (abstract).
ACCIDENT PREVENTION	AEDES Sight identification key for mosquitoes of the	AFRICA
Chlorothiazide. Drugs for veterinary use; drug cfficacy study implementation.	Great Salt Lake Basin. 2486	New species of the genus Typhlodromus from Sudan (Acari: Phytoseiidae).
Would you believe .	Occurrence of Aedes infirmatus D. K. in	2485
3027	Arizona. 2523	AGGLUTINATION  Value and interpretation of serological tests for
First aid in cases of acute poisoning with agricultural pesticides.	Numerical classification of the Canadian species of the genus Aedes (Diptera: Culicidae).	the diagnosis of cryptococcosis.
3036 The campaign of the National Society for the	2530	Screening of feed components for Salmonella with polyvalent H agglutination.
Prevention of Accidents against the use of pesti- cides, with particular reference to the Emilia-	Mosquito studies in northern Wisconsin. II. Light trapping studies.	3005
Romagna region.	AEDES AEGYPTI	AGGLUTINATION TEST A trend in the prevalence of brucellosis in lowa
ACERIA SHELDONI	Mass isolation of malaria sporozoites from	swine. 2916
Effectiveness of standard and new compounds for the control of bud mite, Aceria sheldoni Ew-	mosquitoes by density gradient centrifugation. 2552	Equine leptospirosis.
ing, on navel oranges.	Identification of pteridines in Aedes acgypti (L.). 2612	AGING 2962
ACETIC ACID	Influence of some environmental factors on the	On the determination of age structure of the lar-
Nosema discase of honey becs.	viability and hatching of Aedes acgypti (L.) eggs. 2621	vae of Tendipedidae (Diptera).
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Acetylcholinesterase insensitivity in the Biarra strain of the cattle tick Boophilus microplus, as a	pipiens quinquefasciatus Say and Aedcs acgypti (L.).	tera: Pteromalidae).
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carbamatc acaricides. 2647	Insecticide susceptibility studies in Indian strains of Aedes acgypti L	Brucellosis in Britain.
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ACHETA DOMESTICUS	2690	2870
Sterols of the common house cricket, Acheta domesticus L.	AEDES CANADENSIS  Notes on Alaskan mosquito records.	Weed control with growth regulating substances in micro granule herbicides.

## AGRICULTURAL LEGISLATION

AGRICULTURAL LEGISLATION Stand-by service maintains constant vigilance against animal disease outbreaks.  2919	Acrial activity in Italian agriculture in the period from 1963 to 1966.	ANIMAL ADAPTATION Notes on Pasteurella tularensis isolated from a vole, Microtus oeconomus Pallas, in Alaska.
Bruccllosis in Britain.	ALCOHOLS  A feasibility study on the utilization of monomolecular films for mosquito abatement.	Electrocardiographic aspects of experimental methyl-parathion poisoning.
AGRICULTURAL PRODUCTS  Notice of filing of petition regarding pesticide	2687 Physiologically active substance in Capsella bur-	ANIMAL BREEDING
chemicals.	sapastoris. 3058	ABC of dog diseases: A guide for owners and breeders. 3rd. edition.
Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commoditics. Endosulfan.  3015	Phenethyl alcohol and tryptophol: Autoantibiotics produced by the fungus Candida albicans.	ANIMAL DISEASE TRANSMISSION Toxoplasmosis infrction from rabbit to men. Re-
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2958 Status of State-Federal Brucellosis Eradication	Ecological considerations in scrub typhus. 1. Emerging concepts. 2. Vector species. 3.	Differential diagnosis of bovine encephalitides. 2890
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program.	When algae are a nuisance.	Vx2 epidermal tumour.
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2729	2860	B.V.A. distemper pilot scheme.
AGROBACTERIUM RHIZOGENES Application of Ark's method modified in isolation of Agrobacterium rhizogenes in association with Agrobacterium tumefaciens in galls from Rosa sp. and infected soils.	AMINO ACIDS  The effects of balancing and imbalancing saf- flower protein on food consumption, body weight gain and concentrations of plasma free	Some aspects of cardio-vascular disease in the dog. 2966
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3032	African Thyreus, with life history notes on two	(Hymenoptera, Aphelinidae)parasite of Nip-
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